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LAUNDRY JOURNAL

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Also find data on production and engineering, up-to-date buyers' guide with classified directory, list of manufacturers and trade names.



YOUR
GUIDE
TO THE
EXPANDING
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GUIDEBOOK **ISSUE** OF THE **LAUNDRY INDUSTRY**

September

1953

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VOL. LX, No. 9, SEPTEMBER 15, 1953

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STARCHROOM LAUNDRY JOURNAL, September, 1953. Published monthly by the Trade Paper Div. of The Reuben H. Donnelley Corp. Publication Office, 109 W. Chestnut St., Lancaster, Pa., U. S. A. Subscription rates: United States and Canada, \$4.00 per year; Foreign, \$6.00 per year. Single copies: United States and Canada, 50 cents; Foreign, 75 cents; except for Guidebook issue which is \$1.00 per copy. Volume LX, No. 9. Entered as 2nd class matter June 1, 1948, at the Post Office, Lancaster, Pa., under the Act of March 3, 1879. Gaylord D. Donnelley, Chairman of the Board; David L. Harrington, President and Chairman of the Executive Committee; Curtiss E. Frank, Executive Vice-President and General Counsel; Albert M. Andersen, Executive Vice-President; J. Aubrey Hope, Harold P. Harper, Donald R. Arnold, Vice-Presidents; Harry W. Warner, Secretary and Treasurer.

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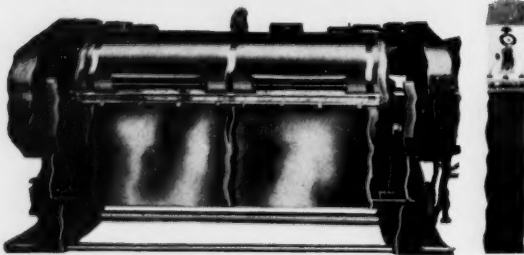
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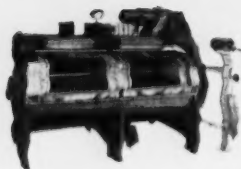
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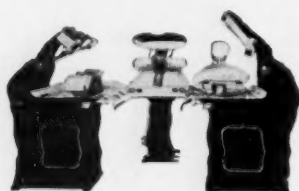
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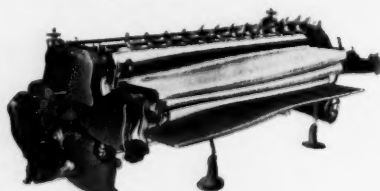
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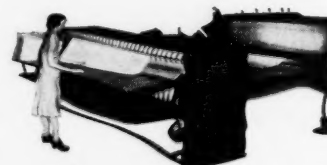
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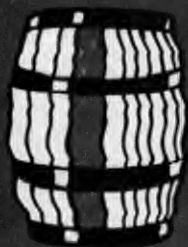
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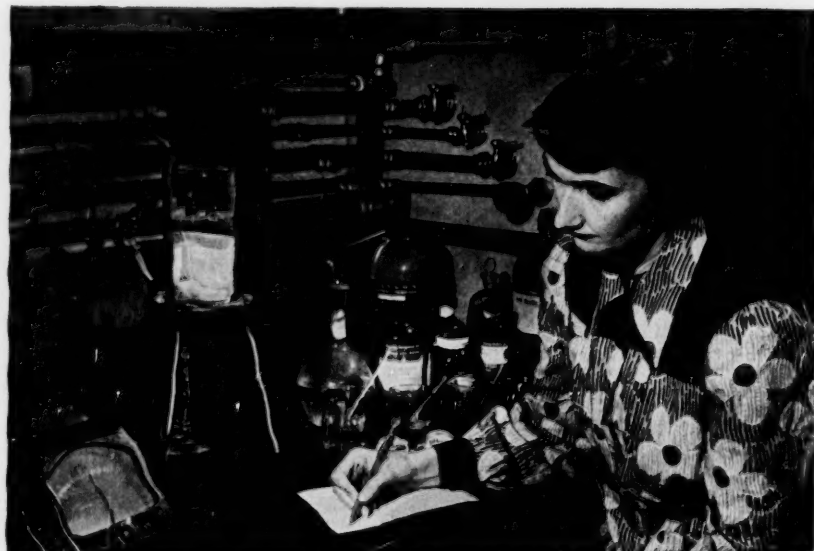
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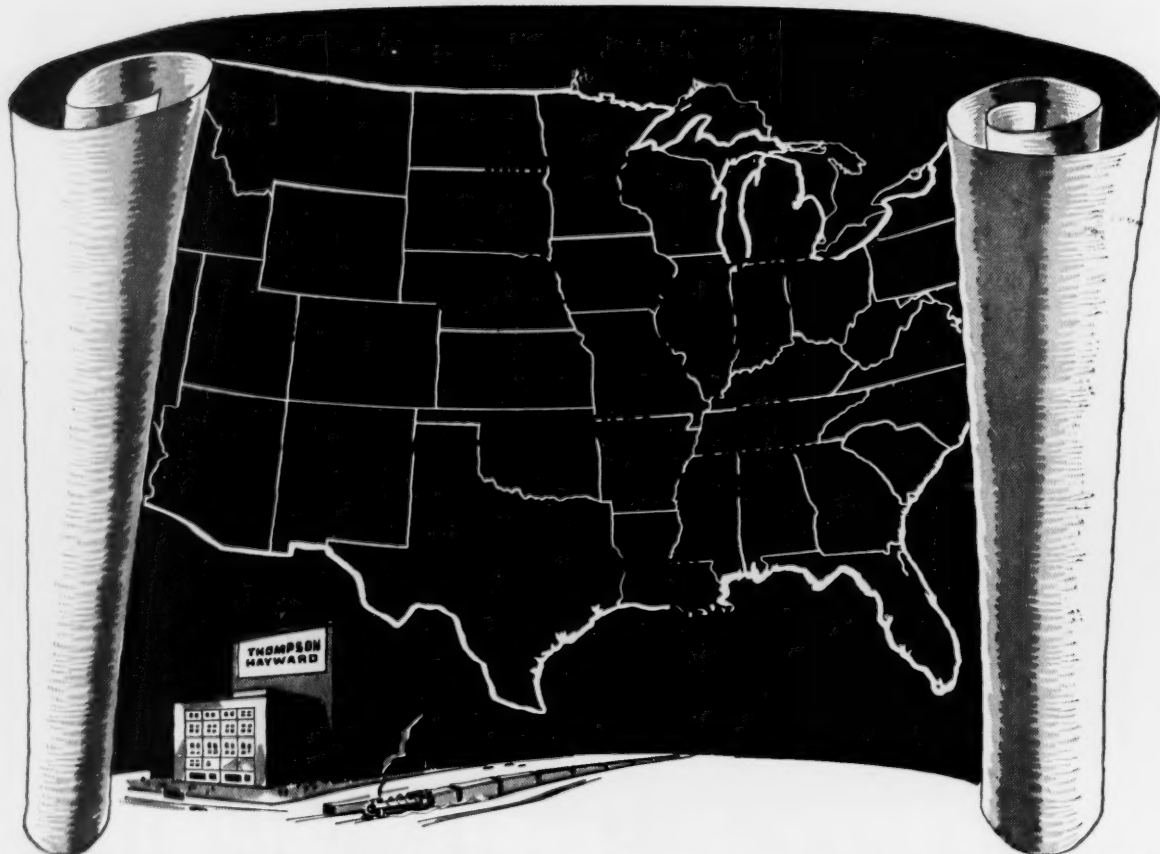
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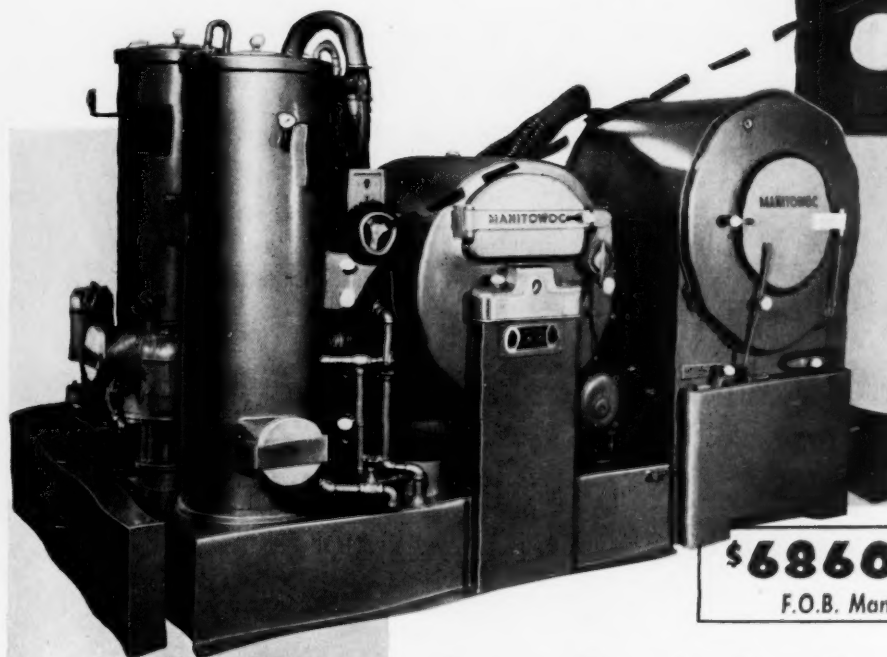
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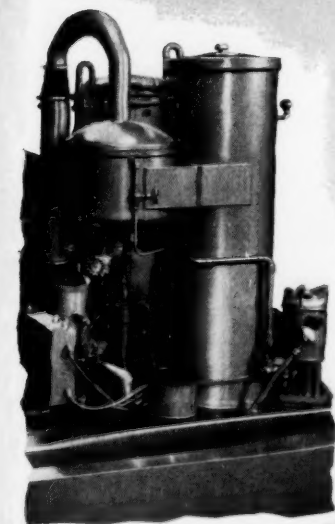
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The WESTERN MODEL 500 Dry Cleaning Washer DIRECT Motor Drive

Why? Simplicity of design—entirely operated from Finger Tip Push Button Controls. Less moving parts—One end V-Belt Drive—No extra belts or countershafts to wear or adjust. Only 3 places to oil. No adjusting or replacing necessary for the duplex trunnion shaft seals. Rigidly mounted anti-friction type outboard bearings assure positive alignment. Metal cylinder with greater agitation. In 30 x 36, 30 x 48, and 36 x 54 in. sizes.

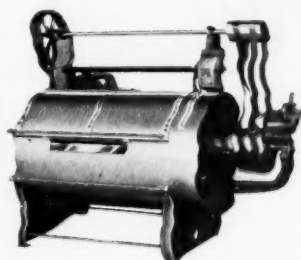


Other WESTERN Washers
and Extractors to Suit
Every Requirement!

REQUIRES LESS
FLOOR SPACE

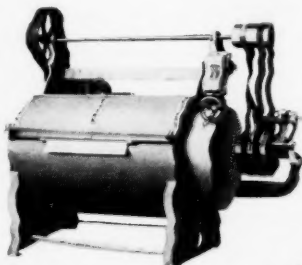
Western Model 500 Belted Motor Drive

The easiest operated, most practical "One Hand Lever Control" Machine you can buy. Ruggedly built for lasting service. In 3 sizes.



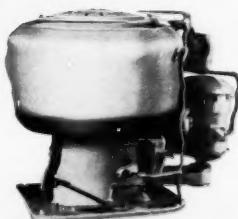
Western Model 50 Belted Motor Drive

Incorporates all the design of the Model 500 and many of the operating features. Choice of wood or metal cylinder. 3 sizes available.



Western Extractors

Solid curb. Motor driven safety equipped. 3 sizes, 20", 26", 30". Both laundry and drycleaning types.



Yes, the complete modern Western Dry Cleaning Washer and Extractor line offers any plant, anywhere, the size and type of unit needed to fit their requirements. Compare any Western-built machine for ruggedness, compare it for operating economy, compare for design and performance—then check the price. You'll be amazed and completely satisfied on what your dollar will buy when you buy Western—truly the equipment designed with the dry cleaner in mind. Get the full facts before you buy—compare Western equipment now.



Manufactured By

NORTH KANSAS CITY, MO.

Western
Laundry Machinery Company

420 East 10th St., Dept. SL-9 North Kansas City, Mo.
Please forward details on Western equipment as checked:

Model 500:

☐ Direct Drive

☐ Belted Motor Drive

Model 50:

☐ Size _____

☐ Extractor
Size _____

Name _____

Address _____

City _____ State _____



KISCO BOILER & ENGINEERING CO.

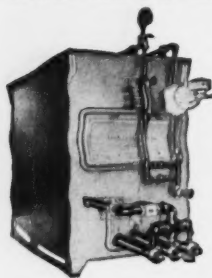
2414 DeKalb Street

St. Louis 4, Mo.

PRODUCTS:

Coal, Gas and Oil Fired Boilers; Water Feeders; Unit Heaters; Condensate Systems; Exhausters; Boiler Water Treatment; Oil Burners; Water Softeners,

KISCO OIL OR GAS-FIRED CABINET BOILER



A compact, fully insulated, automatic boiler, designed exclusively for gas or oil firing. The "Three-Way Heat Travel" is an important economy feature, which absorbs practically all possible heat units from the fuel. This boiler was built for hard water conditions. There are no coils to corrode or cause trouble and the large submerged horizontal fire tubes assure a low upkeep cost and long life. Furnished in 3 to 15 Horsepower sizes. Write for Catalog RCG-9.

KISCO "KWIK-STEAM" VERTICAL BOILER

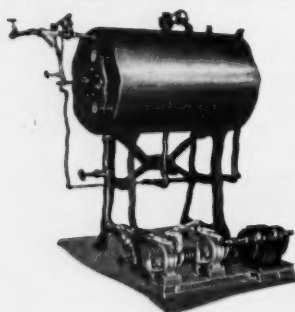


Designed for gas or oil firing. A dependable, fast steaming "packaged" power plant that is simple, compact, economical and durable. A.S.M.E. 100 lb. construction in two sizes, 1½ and three H.P. Write for Catalog RKS-9.

KISCO BOILER FEED PUMPING UNIT

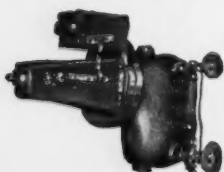
An efficiently designed cold water pumping unit which connects directly to city water line. Used in connection with the Kisco Combination Switch Control, it automatically maintains a uniform water level and steam space in the boiler, where boiler pressure exceeds city water pressure. Bell alarm signal provides additional protection. Write for Catalog RFP-9.

THE "KISCO-BILT" RETURN TO BOILER SYSTEM



The Kisco SYSTEM will increase Boiler Efficiency, Step Up Production, and Cut Fuel Bills. It reclaims both High and Low pressure condensation and feeds Hot make-up water to the boiler Automatically. The Kisco SYSTEM adds years to the life of any boiler and saves countless dollars in fuel, water and labor savings. It assures you of both a Uniform Water Level and Steam Pressure, Plus Protection. Write for Catalog RRS-9.

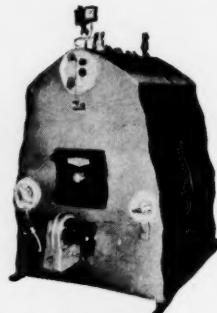
THE KISCO MASTER BOILER WATER LEVEL SWITCH CONTROL



Here's the Perfect Solution to the Important problem of maintaining a Constant and Uniform Water Level and Steam space in your boiler. The Kisco Master Switch Control automatically starts and stops the pumping unit . . . Provides additional protection through the Low Water alarm and Fuel Cut-Out. Write for Catalog RMSC-9.

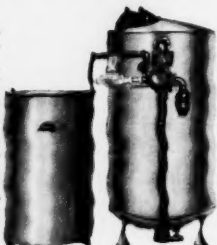
KISCO STEEMATIC WATER TUBE BOILER

Vertical tubes with large steam drum and two large mud drums, gives positive circulation and fast steaming. Refractory baffles give maximum heat absorption and reverse the flow of hot gases over the tubes. Can be fired with any fuel or automatic firing device, and is equally efficient with any type fuel. Sizes 10 to 60. Write for Catalog RSA-9.



THE KISCO "ABSO-SOFT" WATER SOFTENER

Soft water prevents the formation of scale in boilers and pipes and reduces fuel costs due to free heat transfer. The Zeolite "Base Exchange" process filters out calcium, magnesium and other hardening elements. The softened water is tasteless and absolutely safe for drinking or any other process. Kisco "Abso-Soft" Water Softeners are available in many types and sizes. Write for Catalog RWS-9.



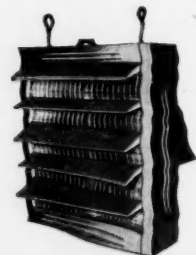
KISCO "Q-T" EXHAUSTERS

There's a size and type EXHAUSTER for every need in the KISCO line. Direct drive and belt drive models from 12 to 48 inches, delivering up to 18,500 cu. ft. of air per minute. Write for Catalog REX-9.



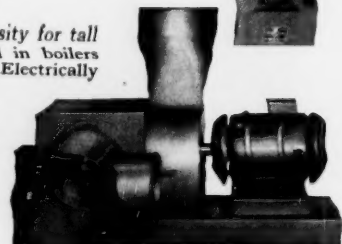
THE KISCO "Q-T" HEAT RECIRCULATORS

These powerful, ruggedly built "Unit Heaters" are constructed for high pressure operation. They are easily installed. Motors have resilient, rubber mountings and new, improved, overlapping fan blades to assure quiet operation. There are sizes and types for every heating requirement. Write for Catalog RSUH-9.



KISCO INDUCED DRAFT BLOWER

Eliminates the necessity for tall stacks. Easily installed in boilers from 5 to 100 H.P. Electrically controlled and entirely automatic in maintaining any desired draft. Any boiler is made more efficient and economical with this unit. Write for Catalog RIDB-9.



KISCO ALKI-SCALE ARRESTOR

Rid your boiler of scale. Enjoy the full efficiency of your steam equipment, prolong the life of your boiler, and reduce fuel costs by using Kisco "ALKI-SCALE" Arrestor. Write for Catalog RAA-9.

"GIBRALTARized"

MEANS IT'S PRE-SHRUNK

GIBRALTAR NYLON NETS

The COMET

The PEERLESS

The MAJOR

are all

PRE-SHRUNK

AT NO EXTRA COST

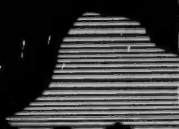
NYLON PRESS CLOTHS

NYLON FLATWORK IRONER COVERS

NYLON FLATWORK IRONER TAPE

ASBESTOS FLATWORK IRONER PADS AND COVERS

Sold
through
leading
jobbers
everywhere



Gibraltar

FABRICS, INC.

2236 PITKIN AVENUE

BROOKLYN 7, N. Y.

HYacinth 5-3052

STELLAR PERFORMANCE

R-x

The All-Purpose, Three-Way Spotter

if YOU ARE NOW a user of R-x, you are already convinced that it is the one product which removes more spots safely in the drycleaning room, the spotting department or wetcleaning department than any other spotter in the market.

if YOU ARE NOT NOW a user, you will find this safe, quick-acting, wet-dry spotter will save you time and patience and speed work to the finishers. On the wetcleaning table it is effective when used alone or in conjunction with soap. The handiest of all spotters on the "board", it loosens and dissolves soil easily and quickly. R-x in any concentration will not damage any fabric and is safe for practically all colors, requiring no special handling, no special techniques, no in-training period.

Removes

SHELLAC

PAINT
TAR

ROAD OIL

LIPSTICK

GREASE

FINGERNAIL
POLISH

AIRPLANE
DOPE



Economical, too,

THERE'S A CALED PRODUCT
FOR EVERY DRYCLEANING
OPERATION

R-x, you'll find,
delivers more percentage
to you!

CALED

PRODUCTS CO., INC.
BRENTWOOD, MARYLAND

memo:

Benwall Pilgrim Nylon Nets
outlast cotton nets

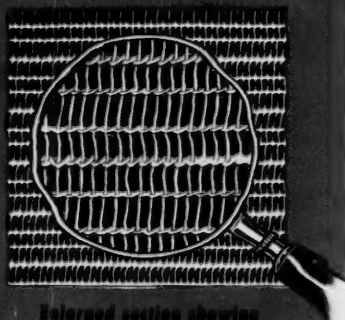
4 to 1

and cost 1/2 as much per washing!

Pilgrim full-woven, open-mesh nylon nets offer not only longer life in the wheel — and more pounds of pay-load — but actually supply dollar savings. Because of their heavier 2 x 6 construction and the fact that each cross thread is triple anchored by an unusually sturdy, three-way twisted weave, they wear longer, give better service and lower your replacement costs throughout the year. Not only that, but you get maximum detergency and whiter work.

Your Jobber Knows!

Because your jobber knows your problems of service and supplies, your need for easy-handling, fast-pinning nets, and your need to cut costs—he'll be glad to supply prices, samples, sizes and actual swatches of Pilgrim Woven Open-Mesh net material. If he doesn't have them, write direct.



Enlarged section showing
PILRIM 2 x 6 construction.
PILRIM Woven Open-Mesh
Nylon nets available in
plain white and six brilliant
easy to classify colored
stripes — blue, black, green,
brown, red and gold.

Benwall

MANUFACTURING COMPANY, INC.

2859 Atlantic Avenue Brooklyn 7, N. Y.

See us at Booth 637
in Los Angeles

The boss sure knows what he's talking about when he says

It's good business to do business with a Pennsalt distributor!

Sound advice—for *any* laundry operator who wants to gain customers, streamline his operation, and boost his profits! If that sounds like a terrific order—well, Pennsalt makes terrific laundry products! A good example is

Pennsalt Erusto-Ray "B"*

Here's a major development in simplified wash-room procedure—a truly fine product, and the newest addition to Pennsalt's well-known, widely-used line of Erusto-matic Neutralizers. Erusto-Ray "B" produces a beautiful bluish-

white finish in *one* operation! What's more, it's so easy to use that guesswork by the operator is completely eliminated.

With Erusto-Ray "B" in your washroom, you save time and effort, you simplify your supply problem, you need less storage space, and you get uniform, sparkling white work every time!

Worth looking into? Then check your Pennsalt distributor—a good man to know! In addition to top-rated Pennsalt laundry products, he offers you the many valuable service "extras" listed on the opposite page.



**Look at the "extras" your
Pennsalt distributor offers**

1. Prompt Service The distributor's warehouse is nearby and he knows your needs well because of his frequent contact.

2. Exact Service The distributor carries an adequate supply of the items you use so he can fill both large and small orders promptly and exactly.

3. Technical Information The distributor and his men have extensive experience in solving the technical problems you face, and they are backed by a nearby Pennsalt specialist.

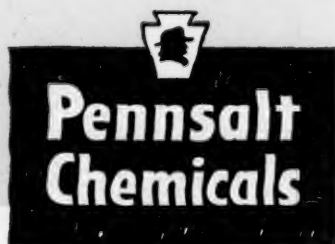
4. Business Information The distributor knows much about plant operation, advertising, finance, and other fields that are part of your business. He keeps you up on the newest developments affecting you.

5. Personnel Leads The distributor maintains a file on available qualified men. He can help you locate a new foreman, superintendent, or other technically trained persons.

6. Promotion The distributor is eager to assist in promoting the wider use of laundry and dry-cleaning services.

7. Reliability The distributor's interest is local. Your success is, to a great extent, his success. He has a stake in your business, and does everything he can to earn your trust and good will.

Let your Pennsalt distributor prove these statements soon!



*Trade Mark of PSM Co.

**PENNSYLVANIA SALT
MANUFACTURING COMPANY**

Laundry and Dry Cleaning Department

EAST: 275 Widener Building, Philadelphia 7, Pa.

WEST: 2168 Shattuck Ave., Berkeley 4, Calif.

now's the time to "TAKE STOCK"



**IN THE DAYS AHEAD YOUR EQUIPMENT
MAY HAVE TO WORK HARDER AND
LAST LONGER.** Compressors are no
exception. That's why it's a good time to
"take stock" of every compressor in your
plant. Measure them against Ingersoll-Rand
Type 30 Compressors that have
proved their ability to give you . . .

1. Maximum air power with lowest power consumption.
2. Long service life with minimum maintenance.

Features like the finned intercooler and precision valving that reduce power consumption make I-R Type 30 Compressors a wise buy today. Performance records show that I-R Type 30 Compressors actually deliver a *greater* volume of compressed air per hp input.

Decide now to get *all* the facts on I-R Type 30 Compressors. Contact your nearest I-R distributor or write direct to Ingersoll-Rand, 11 Broadway, New York 4, New York.

571-2

Ingersoll-Rand
TYPE 30 COMPRESSORS



... Designed to meet
today's demands for
faster, steadier output!

Available in two lines—one for industrial pressures of 100-125 pounds, the other for pressures of 200-250 pounds, 1/2 to 15 horsepower sizes.

PLAN a PROFITABLE SHIRT BUSINESS by Starting with a PROSPERITY® Standard 2-GIRL SHIRT UNIT

... Because it Offers You:

1- EASY OPERATOR TRAINING

Easy-to-make lays . . . safe, simple machine operation with automatic timing. Balanced 2-girl production. Complete machine finish on every part of every shirt.

2- FINE QUALITY FINISHING

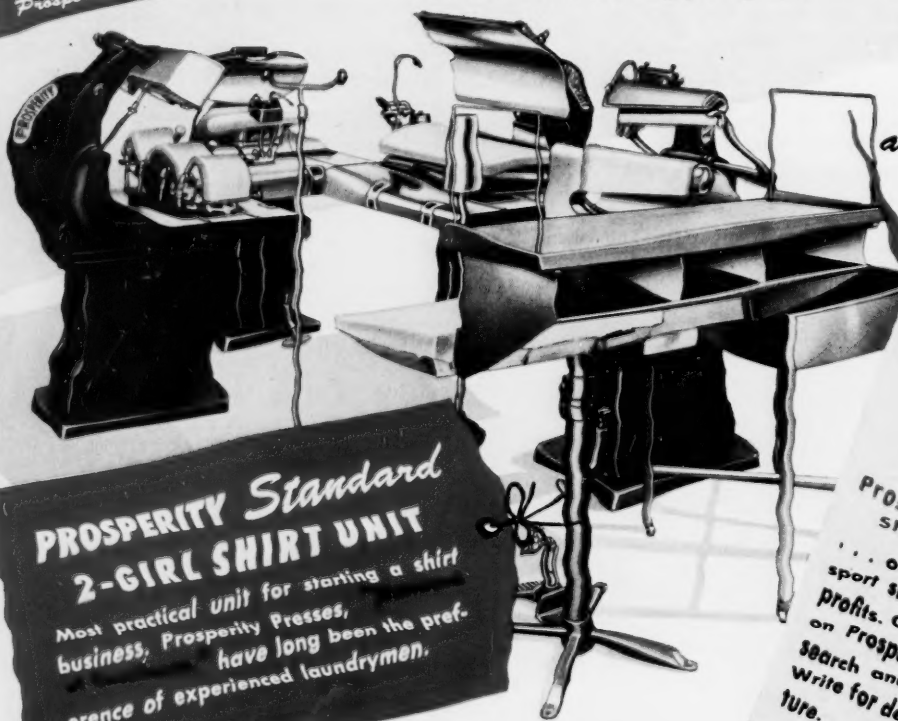
Sustained high quality that insures profit by maintaining customer satisfaction and high price level.

3- BASIC UNIT for CHANGE-OVER, FUNCTION by FUNCTION, TO FASTEST, FINEST SHIRT UNIT AVAILABLE

From 60 to 80 to 120 shirts per hour, in the same floor space and with two operators . . . by change-over to Prosperity automatic units to meet increasing production demands.



Prosperity Quality Builds Business



*Want to do
an Outstanding
Sport Shirt
Business?*



PROSPERITY Standard 2-GIRL SHIRT UNIT

Most practical unit for starting a shirt business. Prosperity Presses, have long been the preference of experienced laundrymen.

Prosperity's New Sport
shirt Department
... offers the solution to
sport shirt processing and
profits. Get the facts based
on Prosperity Institute re-
search and plant practice.
Write for descriptive litera-
ture.

Registered Trade Mark of
The PROSPERITY COMPANY, Inc.
Tutuolu, N. Y.
PROSPERITY®

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AUTOMATIC PRECISION PRODUCTION TOOLS FOR LAUNDRY AND DRYCLEANING PLANTS
Trademark Prosperity
Reg. U. S. Pat. Off.
Company Inc.

Main Office and Factory, Tutuolu, N. Y.



Sales, Service and Parts in Principal Cities

When writing to advertisers please mention STARCHROOM LAUNDRY JOURNAL

PARA-LUX



Holds up to 12 neckties by tension without wrinkles or pin holes. Preserves perfect finishing.



Keeps ties safely protected over Ti-Rak. Fine quality, heavy white kraft with sales-compelling message.



Allows easy separation of garments on racks, either alphabetically or numerically. Hangs on racks just like garment hangers.

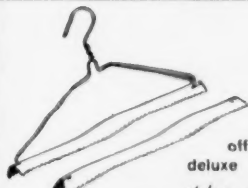


HANGER COVERS

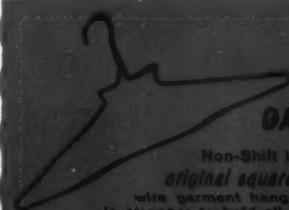
Scientifically designed to create a cushion of air at neck and shoulders, thus fully protecting the final pressing operation. Self-sealing. No pins or staples required. Cannot tear off hanger. Quick, simple to use. Available with individual advertising message.



Holds belts or single neckties firmly in place without pins by locking securely in place over hanger hook.



No lint rubs off. Standard and deluxe styles. Slotted ends fit all standard size wire hangers. Holds trousers smooth.



GARMENT HANGERS

Non-Shift is the original square top wire garment hanger. It is stronger to hold all types women's and men's garments. It anchors the garments in properly centered position, protects careful finishing and holds proper shape at all times.



Packaging helps for extra repeat business!

Perfect service demands perfect packaging. And you are certain of perfect packaging and proper protection for your services when you use PARA-LUX Packaging. Leading dry cleaners and launderers have found that PARA-LUX helps to build extra business, too. Let us send you samples and prices on timely, effective, colorful, sales-promoting PARA-LUX packaging specialties. You'll soon learn the difference at your own cash register!

Lincoln Bag Company, Inc.
Para-Lux Products Company

4211 WEST SCHUBERT AVENUE • CHICAGO 39, ILLINOIS



COLLAR SUPPORT

Greater operator output is easy with this amazing collar support that prevents distortion and breakdown of collar. It is quickly inserted inside the collar band to remain in four-way, tucked position.



PACKAGING



Alice Corr

MAID of COTTON

If it's made of cotton you should use

COLGATE LAUNDRY BRIGHTENER

*For Whiter
Brighter Washes!*

If you're not already using Colgate Laundry Brightener—the latest detergent aid to whiter whites and brighter colored cotton washing—better order some today!

You'll notice the improved color of your finished work from the day you start using it. And—so will your customers!

They'll be sure to see—and appreciate—the improved whiteness of shirts, pillowcases, sheets, tablecloths, towels, handkerchiefs and other white cotton pieces. Colored cottons, too,

will look brighter, sharper—more pleasing to the eye.

So don't wait another day. Start adding Colgate Laundry Brightener to your regular washing formula. Stable in all laundry bleaching operations, this new detergent *guarantees* whiter whites, brighter colors—or, your money back!

Call your local supplier now! Start giving your customers that improved quality of work—those whiter, brighter washes—they're all looking for!

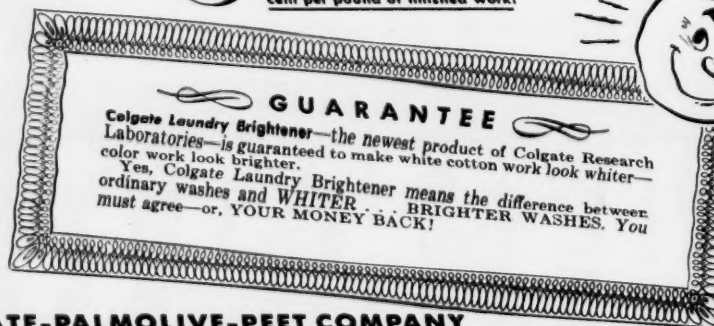
Other C. P. P. Products For The Laundry Industry

ARCTIC SYNTAX HD—A new, all-purpose, heavy-duty synthetic detergent for washing fine fabrics and general laundering in hard water.

COLGATE FORMULA 40—A built, high titer soap for heavy-soiled cotton washing in soft, hot water. A complete detergent that is easy to use.



ECONOMICAL, TOO!
Costs less than 1/20 of a
cent per pound of finished work!



GUARANTEE
Colgate Laundry Brightener—the newest product of Colgate Research Laboratories—is guaranteed to make white cotton work look whiter—color work look brighter.
Yes, Colgate Laundry Brightener means the difference between ordinary washes and **WHITER, BRIGHTER WASHES**. You must agree—or, YOUR MONEY BACK!

COLGATE-PALMOLIVE-PEET COMPANY

Jersey City 2, N. J.

Atlanta 5, Ga.

Chicago 11, Ill.

Kansas City 5, Kans.

Berkeley 10, Calif.

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WESTWOOD



Launderers-Cleaners, Inc.
WESTWOOD, N. J. • WESTWOOD 5-0436

May 22nd, 1953

Zephyr Laundry Machinery Company
400-21st Street
Moline, Ill.

Gentlemen:

As you know we recently purchased one of
your Hydraxtors for our laundry department.
We have been operating a hydraulic type
extractor since 1941.

We thought you would be interested to
know that your machine produces twice as much
work in 40 per cent less time.

Needless to say we are very pleased with
our Hydraxtor.

Sincerely yours,
WESTWOOD LAUNDERERS-CLEANERS, INC.

Arthur E. Gelman
Arthur E. Gelman

NOW

THEN



YOU MAY BUY OR LEASE... SEND FOR INFORMATION TODAY!

HYDRAXTOR COMPANY

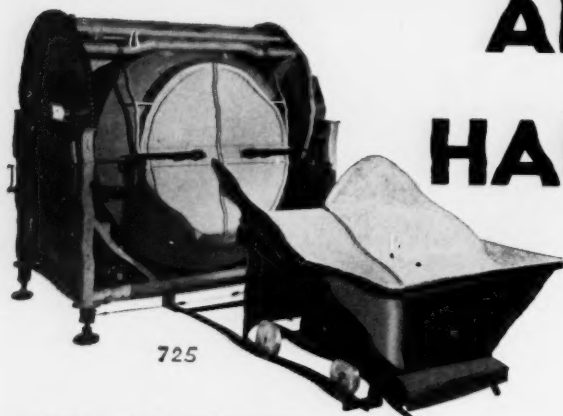
Division of ZEPHYR LAUNDRY MACHINERY COMPANY

153 WEST HURON STREET • CHICAGO 10, ILLINOIS • (Factory: 400 W. 21st St., Moline, Ill.)

VISIT US IN BOOTH NO. 332 AT A.I.L. CONVENTION IN LOS ANGELES

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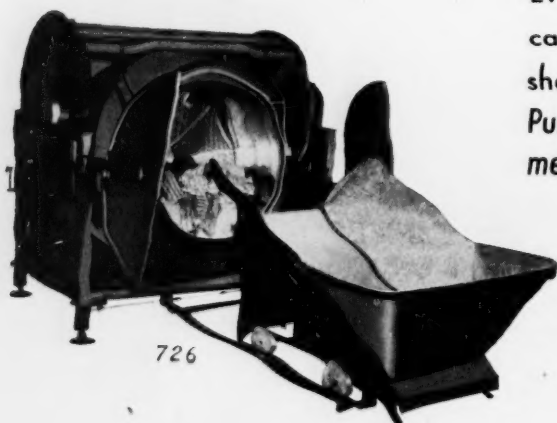
ARE YOU STILL HAND-SHAKING? WHY?



725

Doors fit tightly, permitting large loads to be tumbled.

Every operation from extractor to ironer now can be done by machine . . . eliminate hand-shaking entirely! The heat-conditioning 72" Purkett "Bigmouth" Tumbler warms, softens and mellows flatwork—keeps several ironers busy.



726

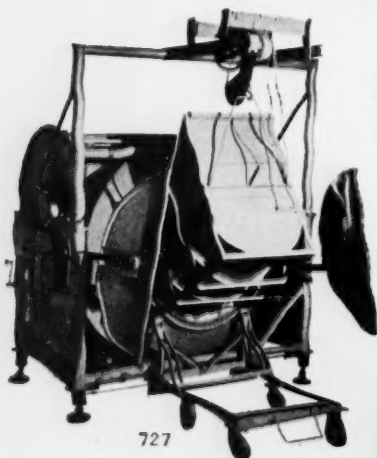
The divided door swings open automatically and remains out of the way of the cylinder during the entire unloading and loading cycle. Doors now perforated for slight drying action.

- Eliminates Hand-Shaking
- Automatic Reversing
- Enormous Capacity
- Automatic Unloading

LOADING EQUIPMENT

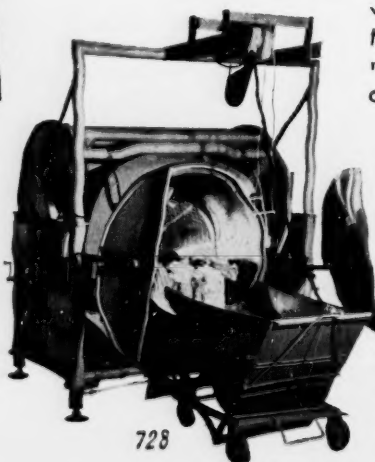
The conveyor loader is for use with the removable-type extractor basket, and is the most efficient loader. It must be located where it may be reached by monorail or jib crane.

The loader trucks are wheeled to the extractors to receive the loads and then wheeled to the tumbler and the load transferred to the tumbling cylinder by means of a hoist. The tumbler may be located anywhere in the plant.



727

Illustrates hinged loader truck after depositing load into tumbler.



728

For complete details and specifications of both models No. 48 and No. 72, write to any major laundry machinery manufacturer, or . . .

PURKETT
MANUFACTURING COMPANY
JOPLIN, MO.

FROM *START* TO *FINISH*

RED EDGE IS BEST FOR YOU

- GREATER RESILIENCY
- HIGHER STEAM ABSORBENCY
- LONGER LIFE, FEWER PADDING CHANGES
- ECONOMY, EFFICIENCY AND SERVICE

You get satisfaction right from the *START* because RED EDGE Knitted Padding goes on quicker and gives longer service life . . . Your customers get flatwork with "perfection" *FINISH*, the fresh-as-new look that means repeat calls for your routemen, profits for you!

RED EDGE provides a resilient cushion for your flatwork ironers and presses. Its springy, *knitted* construction stands up far longer under constant, production schedule punishment, yet has just enough "give" to protect seams, hems and buttons. Porous texture absorbs clouds of steam and is highly resistant to scorching.

For the "perfection" finish that gets new customers and holds the regulars, put RED EDGE to work in your plant now! Call your Supply House for complete details.



RED EDGE KNITTED PADDING

STANDARD $\frac{1}{4}$ " AND $\frac{1}{2}$ "
FOR FLATWORK IRONERS: $\frac{1}{4}$ " and
 $\frac{1}{2}$ " Styles in Rolls, or Cut and
Bound Pads.

FOR PRESSES: $\frac{1}{4}$ " Style. Red-cut
and bound Pads. Also available in
Press Padding Rolls.

All 3 Double Thick Cut and Bound Pads available in all 3 cotton-
asbestos styles for Flatwork Ironers using spring padding.

DOUBLE THICK
FOR FLATWORK IRONERS: 3 Cut and
Bound Pad Styles.

Cotton: Cotton Binders attached.

Cotton: Asbestos Binders attached.

Asbestos: Asbestos Binders attached.

Asbestos: Asbestos Binders attached WITHOUT

RED EDGE

Knitted Padding

KNITTED PADDING CO. • CANTON, MASS.

BANNER LAUNDERING COMPANY
Established 1934
DETROIT 1, MICHIGAN

Marathon Linen Supply Co., Inc.
2444 N. Crawford Ave.
CHICAGO 7, ILLINOIS

CENTRAL STEAM LAUNDRY COMPANY
314 WEST GRAND AVENUE
CHICAGO 10, ILLINOIS

AMERICAN LINEN SUPPLY COMPANY
2444 N. CRAWFORD AVENUE
CHICAGO 7, ILLINOIS

ELLIS Full-Automatic Unloading Type Washer

In the Ellis system, all washing supplies are piped directly to the machines from a central supply unit. Complete operating cycles are pneumatically controlled from a single station on each individual washer.

LETTERS from our customers in the linen supply service, now using ELLIS Full-Automatic Unloading Type Washers, report sensational gains in production and profits—substantial savings in supplies and labor—easier and better control of operations.

Here are some typical results:—"Our two new ELLIS Washers are replacing 13 older type machines."—"With Ellis Automatic Washers, we are averaging 820 pounds per man per operator-hour."—"We estimate a saving of 35% in productive labor since installing Ellis machines."

Ask for further details of
Ellis Automatic Equipment.

The ELLIS DRIER Co.

2444 NORTH CRAWFORD AVENUE

HEAVY DUTY CHICAGO ONE GRADE

Mr. George W. Kriegh, Pacific Coast Representative of The Ellis Drier Co., Pasadena, Cal.

Knitted on our own Knitters

The Net of Many Tomorrows!



X. S. SMITH IS PROUD TO PRESENT
THE NEW **BULLDOG**

CADILLAC

KNITTED NYLON NET

Finest Laundry Net Ever Made!

Long life is the most important part of the formula for quality. The magnificent Bulldog Cadillac Knitted Open-Mesh Nylon Net is made for the Laundryman who calculates the actual number of washings a net can take against its initial cost! It's heavier . . . contains more nylon . . . and it's precision knitted on our own Knitters.

The longer life of the Bulldog Cadillac Nets reduces your investment . . . but you get more. Knitted

construction gives you better washing and extraction, visibility, easy pinning with less damage, minimum runs and splits, increased washer capacity. Shrinkage is drastically reduced and the shape is always maintained for easier handling.

Now, stretch your Net budget with Bulldog Cadillac Knitted Nylon Nets. If not immediately available at your jobber, please write us for full information direct.

See us at A.I.L. Convention, Los Angeles, October 9-11
Booth No. 436-437



Exhaustive research by Dupont has proved that 260 denier, 17 filament, bright, high-tenacity nylon yarn has greater life when used in washing formulas over any other denier yarn. Bulldog Cadillac Nylon Nets are knitted only with this great product of Dupont.

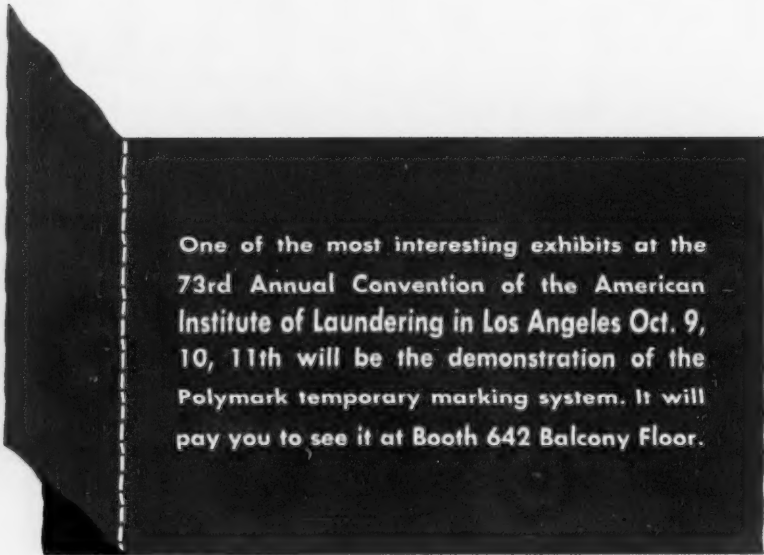
Bulldog Cadillac Nylon Nets are heat-set at the highest possible degree of 440°F. and insure you against excessive shrinkage.

X. S. SMITH, INC.

Red Bank, New Jersey

Polymark

FULL IDENTIFICATION AT A GLANCE



One of the most interesting exhibits at the 73rd Annual Convention of the American Institute of Laundering in Los Angeles Oct. 9, 10, 11th will be the demonstration of the Polymark temporary marking system. It will pay you to see it at Booth 642 Balcony Floor.

If you are unable to attend the Convention
write for illustrated brochure

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PINNACLE PRODUCTS

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PROVE REMARKABLE
EFFICIENCY, ECONOMY
AND VERSATILITY OF
LOW-COST CMC FORMULA**

No other finishing aid can really satisfy you and your customers like CMC Formula. Laundrymen everywhere who have used this revolutionary product on work ranging from shirts to cotton rugs tell of savings in costs and better-looking laundry. Ironing is easier, because there's no buildup or sticking. Laundry finished with CMC Formula is easier to wash, too, because CMC checks dirt penetration.

CMC Formula is a dry, granular powder which dissolves rapidly and evenly without cooking or other preparation. Add it in the final operation, sour or blue. All you need is from one-half to three ounces for every hundred pounds of load. You can get CMC Formula from leading distributors in 64-lb. paper bags, 25-lb. drums, or 200-lb. drums. Write Hercules if you don't know the names of convenient suppliers.



Cellulose Products Department
HERCULES POWDER COMPANY

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CMC
HERCULES®
FORMULA

Dry...Granular...Fast-Dissolving



"... for some months we have been using CMC Formula both on shirts and in sizing flat work. In all the years we have operated this plant, we have never had a product that gave us so much pleasure to use. CMC Formula not only is cheaper to use than other things, but it leaves garments with a nicer appearance."

LOUIS WORST, President
Lord Baltimore Service, Baltimore, Maryland

"CHEAPER THAN OTHER
SIZINGS, AND GIVES
NICER APPEARANCE..."



"... we are using Hercules CMC Formula in our linen supply operation on table linen and aprons. We find the use of this product imparts a fine finish and a like-new feel to the article. After using CMC Formula in the final rinse, these flat articles go through our flatwork ironers with no sticking..."

CHRIS DARIOFIS, President
Carvey Laundry Service, Seattle, Washington

"A FINE FINISH AND
LIKE-NEW FEEL, WITH
NO STICKING TO IRON"



"... although we are using CMC Formula only on linen supply at present, we are trying it on other classifications. There are definite indications of better whiteness, finer texture, and easier handling characteristics through the finishing operations. There is also a long range improvement in ease of soil removal..."

FEROUS BRIGGS, JR., Manager
National Laundry & Linen Supply Co., Pocatello, Idaho

"FINER TEXTURE AND
EASIER FINISHING. IT
AIDS SOIL REMOVAL..."



"... I have been using CMC Formula for quite some time on all types of work, and am very well pleased with it. It has reduced my washroom costs considerably because less soap and other materials are required. I firmly believe that CMC Formula is one of the greatest products that has been introduced to the laundry industry..."

J. M. JOHNSON, Owner
Clarksville Laundry & Linen Supply, Clarksville, Tenn.

"REDUCED COSTS, SINCE
LESS SOAP AND OTHER
MATERIALS NEEDED..."



"... after using CMC Formula for ten months, we are pleased to report it has more than lived up to expectations. We use it on white and light colored work, and find that it makes whites whiter and colors brighter. We are able to obtain 20% more mileage on our soap solution by adding three and one-half pounds to 800 gallons."

GEORGE E. FOLEY, Superintendent
Elgin Laundry Company, Gary, Indiana

"WHITES ARE WHITER,
AND COLORS BRIGHTER.
EXTENDS SOAP 20%..."

YOU PAY **2** PRICES WHEN YOU BUY ANY ROUTE DELIVERY TRUCK!

1 THE ORIGINAL PURCHASE PRICE OR "DEAL"

2 THE ANNUAL UPKEEP OR OPERATING COSTS—

ANNUAL TRUCK MAINTENANCE RECORD

| TRUCK | MILEAGE | GASOLINE | OIL | REPAIRS |
|-------|---------|----------|-----|---------|
| 1940 | 10,700 | 11.200 | 10 | 19.500 |
| 1941 | 9,400 | 9.600 | 20 | 21.700 |
| WHITE | 11,500 | 10.700 | 10 | 18.600 |
| 1942 | 12,600 | 7.000 | 4 | 16.700 |
| 1943 | 8,700 | 8.700 | 7 | 10.700 |
| 1944 | 6,800 | 7.000 | 15 | 7.000 |
| 1945 | 16,800 | 9.400 | 21 | 6.700 |
| 1946 | 10,700 | 10.700 | 30 | 11.700 |
| 1947 | 12,600 | 2.100 | 70 | 20.700 |
| 1948 | 11,700 | 11.700 | 10 | 10.700 |
| 1949 | 7,600 | 7.600 | 10 | 10.700 |
| 1950 | 12,600 | 12.600 | 10 | 20.700 |
| 1951 | 11,700 | 11.700 | 10 | 20.700 |
| 1952 | 11,700 | 11.700 | 10 | 20.700 |
| 1953 | 11,700 | 11.700 | 10 | 20.700 |

GASOLINE, OIL, PARTS, REPAIR LABOR, GARAGE SERVICE, SHORT VEHICLE LIFE, ETC.

AS THE YEARS ROLL ON THESE COSTS MAY FAR EXCEED THE ORIGINAL PURCHASE OR DEAL.

but YOU GET 8 TO 12 YEARS OF LOW COST OPERATION WITH *Long Life* DIVCOS!



• Quite a few delivery truck buyers still shop around and buy any-and-every-make of truck depending upon special discounts or "sweet-trade-in-deals" without regard to the ultimate operating and maintenance costs as the years go by. Many of these trucks are worn out in 3 or 4 short years. This short sighted buying policy can prove mighty expensive to a firm operating a fleet. Divco fleet operators avoid this expense. Their rugged Divcos deliver routes economically year after year without wasteful gasoline costs—or expensive parts replacements. Thousands of Divcos are now in use that were built 8, 10, 12 and even 15 years ago. You, too, should DIVCO-ize to ECONOMIZE!

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WHAT IS DRISUDZ?

DRISUDZ is a complete, all-the-way-thru laundry detergent. Soap and alkali are chemically combined in one product. DRISUDZ does the entire job of washing.

WHAT WILL DRISUDZ DO IN YOUR LAUNDRY?

DRISUDZ simplifies and speeds up washing—quickly penetrates stains—completely removes soil.



WHY IS DRISUDZ DIFFERENT?

DRISUDZ is a complete product—not a mechanical mixture—no "fillers" added. Each particle is the same as every other to assure constant solution strength and uniform washing results.

HOW DOES DRISUDZ SAVE TIME?

Use DRISUDZ alone on the break and in the suds. Dry to the wheel—all-the-way-thru—to turn out clean, sparkling loads in a hurry.



Packed in multiwall paper bags, 100 lbs. net and in Leverpak drums, 250 lbs. net

Your Cowles Technical Man will be glad to demonstrate *all-the-way-thru* washing with DRISUDZ in your plant. Call him today through your Cowles Dealer or write us.

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7016 Euclid Avenue • Cleveland 3, Ohio

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ESCOL 77

DESOIL

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SOILSORB

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*"Good Washing
to You
Good Will"*

Starchroom Editorial

The Chemical Age

Consumption of man-made textile fibers increased four-fold between 1937 and 1951, according to a study of textile inter-fiber competition compiled by E. I. du Pont de Nemours & Co., Inc., and recently released by the Textile Economic Bureau, Inc.

Consumption of both natural and man-made fibers was just under 6½ billion pounds in 1951, or 35 percent more than in 1937. In the 15-year period the end-use consumption of man-made fibers increased 933 million pounds, or nearly 400 percent, while the combined gain for cotton, wool, silk and linen was 669 million pounds, or 15 percent.

Trade estimates of consumption from 1951 to date would indicate that the man-made fibers have maintained their gains in the last two years. The du Pont study, it should be noted, does not project the end-use figures beyond 1951 nor does it take into consideration the rapid growth of non-cellulosic fibers such as nylon, Orlon, Dacron, dynel, Acrilan and Vicara since 1951.

The study was confined to man-made fibers that are in competition with each other in the apparel, household and industrial fabrics field.

Man-made fibers made their most spectacular gains in the industrial textile field, according to the study. Of over 1½ billion pounds of fiber used in this field, the man-made fiber share in 1951 was 26.8 percent, compared with a mere one percent of a slightly lower poundage consumed in 1937.

Cotton lost ground in the industrial field, its share falling from 94.7 percent in 1937 to 69.2 percent in 1951. Wool's share held fairly steady at just under four percent in the comparison years.

In the men's and boy's apparel classification, end-use consumption of all fibers was greater by 210 million pounds in 1951 than it was in 1937. Cotton's share was 72.8 percent in 1951, as compared with 76.4 percent in 1937. Wool's share was 15.6 percent in 1951, against 19.9 percent in 1937. The share of man-made fibers in men's and boys' apparel rose from 3.2 percent in 1937 to 11.4 percent in 1951.

Women's and misses' apparel consumed almost 805 million pounds of fiber in 1951, compared with over 580 million pounds in 1937. For women's suits, jackets, skirts, slacks and slack suits, 96.4 million pounds were consumed in 1951, with man-made fibers comprising 49 percent, as compared with 32 percent for wool and five percent for cotton.

In household textiles, 1.401 billion pounds of natural and man-made fibers were consumed in 1951, compared with 1.014 billion in 1937. Cotton accounted for 80 percent of the total in 1937 and 79 percent in 1951. Wool's share was 16 percent and 10 percent respectively, while the man-made fiber share was three percent and 11 percent.

As far as the textile industry is concerned, it would seem that the Chemical Age is upon us.

What does this mean to the laundryowner?

For one thing, it means that those sport shirts which are being so poorly finished (see STARCHROOM for July)

will continue in greater and greater popularity. Two out of every three shirts made today are cut to sport-shirt patterns. And of these sport shirts, just about half are made from fabric containing 50 percent or more rayon or acetate. These *must* be finished to the customer's satisfaction. If they aren't, he simply won't send them to the laundry.

Secondly, the rising popularity of man-made fibers emphasizes the importance to the industry of—

Standard L22

That's the name for the set of standards or minimum requirements for fabrics whose composition includes half or more of rayon or acetate. It was recently drawn up by a committee of 74 representatives of 30 national organizations, including the American Institute of Laundering.

Published in the form of a 16-page booklet, it tells the content and purpose of the new standard and explains how the consumer can use it to obtain a fabric that meets the requirements of any of the 51 end-uses.

It represents the first effort of business and consumers to draw up common definitions that will mean the same thing to all the people who manufacture, weave, knit, dye treat, cut, fashion, dryclean, launder, purchase and sell the fabric. To that extent, it represents progress along the road to solution of a problem which has been a real headache to laundryowners and their customers.

The booklet does not list the 51 different standards for rayon and acetate fabrics, nor does it give the 31 test methods for telling whether the fabric will be suitable for the particular end-use specified. It says:

"These requirements, and the detailed wording which outlines them, are not concerned with the way the fabrics are made. They are concerned only with the way they will perform. . . . *Just how the manufacturer achieved a fabric that would meet the requirements of L22 is secondary in importance to the performance of the fabric in use.*"

The customer will be very glad to hear that labels are recommended by L22 that are simply coded:

"Green—for 'Go'—for materials washable in water up to 160° F.

"Amber (or yellow)—for 'Caution'—for materials washable in water up to 105° F.

"Red—for 'Stop'—for materials which must be dry-cleaned."

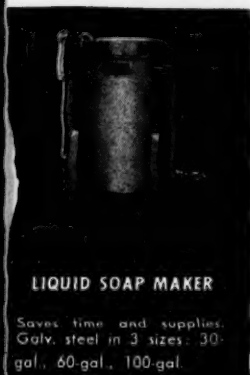
L22 has provided standards that provide a common language, and recommended labels that can mean the same thing to all. *But they are voluntary.* The laundryowner must persuade his customers to ask for those labels on every rayon or acetate garment they buy, and to suggest similar labels for all other types of fabric.

Copies of the booklet are obtainable from the American Standards Association, 70 East 45th Street, New York 17, N. Y., at 10 cents each.

If enough laundryowners in enough communities give a copy to enough of their customers, think of the good-will they will create. It could result in a renewal of many women's confidence in many laundries.

BISHOP *Laundry* WORK-SAVERS

Cut costs—boost production and profit—give lifetime service



LIQUID SOAP MAKER

Saves time and supplies. Galv. steel in 3 sizes: 30-gal., 60-gal., 100-gal.



FRONT-FOLD SHIRT FOLDER

With heated expanding collar mold for heart-shaped collars; X-ray Guide Light for fast, straight folds. No. B1-3



STARCH COOKERS

All copper, double-walled, permanently insulated. In 15, 25 and 50-gallon sizes.



SORTING REEL

Assemble 25 bundles (150 nets) in 5 minutes in 10' x10' area. No. B12-2.



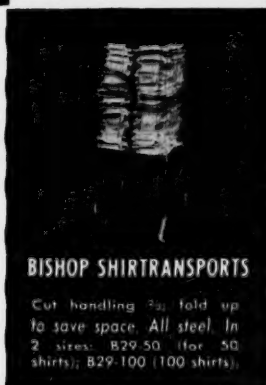
STAINLESS PREPARATION TRUCK

Ideal damp box, 18"x25"x11" deep, 34 1/2" high, on 3" wheels. No. B2-122.



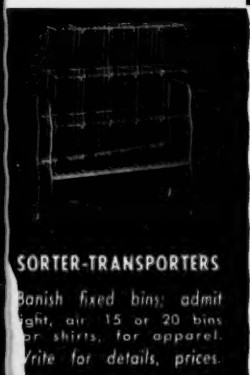
IRONING BOARD

53" steel top; iron rest; sponge cup; cord holder; pilot light assembly, and sleeve board. No. B4-5M.



BISHOP SHIRTRANSPORTS

Cut handling 25 fold up to save space. All steel. In 2 sizes: B29-50 (for 50 shirts); B29-100 (100 shirts).



SORTER-TRANSPORTERS

Banish fixed bins; admit light, air, 15 or 20 bins or shirts, for apparel. Write for details, prices.



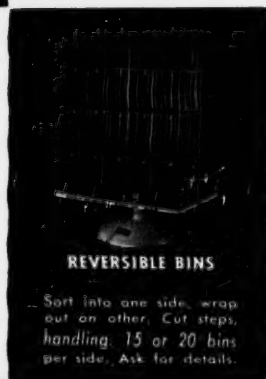
BISHOP PUFF-FINISHERS

Heads tilt over board; no reaching. B5-18X (shown); #3, #22, #52 heads; spray iron, spray gun.



REVOLVING SORTER

50 bins in arm's reach to sort twice as fast in half pace. Turns at flick of finger; holds 500 shirts. Don't tip. No. B26-10.



REVERSIBLE BINS

Sort into one side, wrap out on other. Cut steps, handling, 15 or 20 bins per side. Ask for details.

Buy Now...SAVE from now on!

Economy
Permanence
Corrosion-Resistance

BISHOP
Lifetime Stainless
TRUCK TUBS

Safety
Cleanliness
Efficiency



Order Now FROM YOUR SUPPLIER.....

Rounded corners for easy unloading



BISHOP No. 2 Stainless Steel Truck Tub, 22"x34"x25", with steel tread casters, drainboard. No. B2-9

Same, with rubber tread casters, No. B2-10

BISHOP No. 3 Stainless Truck Tub, 26"x36"x25", steel tread casters, drainboard. No. B2-17

Same, with rubber tread casters, No. B2-18

Your first cost is your last when you invest in BISHOP Lifetime Stainless Steel Truck Tubs. For 20 years or longer, you can expect lowest-cost handling of the wash—with greatest ease, complete safety. Stainless steel won't rust or corrode; is not affected by washroom chemicals. The shiny surface stays smooth... no roughness or splinters to snag fabrics or fingers. Heavily-built, properly balanced—they push effortlessly, turn in their own length... speed handling; pay their cost in faster production. Limited supply is available for immediate delivery.

G. H. BISHOP CO., CHICAGO, ILL.



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MANUFACTURERS SINCE 1893

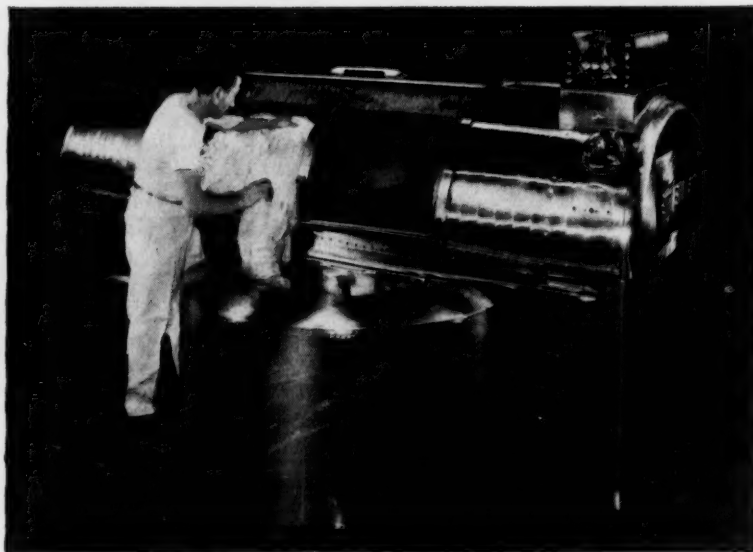
Can you get good washing with a 'Slyde-Out' Washer? WHY NOT ASK THE MAN WHO OWNS ONE?

If you already own one or more 'Slyde-Out' Washers, you know from your own experience that 'Slyde-Outs' wash as well or better than open pocket machines.

If you haven't yet bought your first 'Slyde-Out,' consider this: Troy 'Slyde-Outs' were introduced to the laundry industry less than five years ago, yet today nearly two thousand of them are in operation all over the world. They turn out clean, top quality work and their owners are well satisfied with them. All these 'Slyde-Out' users can't be wrong!

Troy still builds open pocket machines for those who want them, but 'Slyde-Outs' account for 85% of our washer production. We build what the laundry industry demands, and most laundryowners today prefer 'Slyde-Outs' because:

- 1 *'Slyde-Outs' wash as well or better than open pocket machines.*
- 2 *While mechanical dump washers are as quick and easy to unload as 'Slyde-Outs,' Troy 'Slyde-Outs' cost much less.*
- 3 *'Slyde-Outs' have no complicated mechanisms to get out of order.*



'Slyde-Outs' are available with fully automatic, semi-automatic or manual controls. Illustration shows 42" x 84" 'Slyde-Out' with Fullmatic controls.

Theories are fine for college professors, but practical laundryowners are interested in practical results. Chances are there are several 'Slyde-Outs' in service right near your plant. Why not drop in for a visit and see for yourself the quality of washing they do? We'll be glad to furnish a list of 'Slyde-Out' users

near you. Ask your Troy representative or phone, wire or write our factory. There's no obligation, of course.

Be sure to see the Troy 'Slyde-Out' Washer and 54" Olympic Unloading Extractor at the A.I.L. Convention in Los Angeles.

Troy

LAUNDRY MACHINERY

Division of
American Machine and Metals, Inc.
EAST MOLINE, ILLINOIS

World's Oldest Builders of
Power Laundry Equipment

TROY LAUNDRY MACHINERY, Dept., SL-953

Division of American Machine and Metals, Inc., East Moline, Illinois

☐ Send me the names of 'Slyde-Out' users near me.

☐ Send me a catalog on 'Slyde-Out' Washers.

☐ Have a Troy representative call on me.

FIRM NAME

STREET ADDRESS

CITY

STATE

ATTENTION OF MR.

Markets are People

IF YOU ACCEPT THE DEFINITION of a market as a meeting together of people, at a stated time and place, for the purpose of traffic by private purchase and sale, we'll go along with you.

And if you agree that the word *people* should be emphasized when using that definition we will have a common ground of understanding on which to begin this discussion. For, after all, a market—*any market*—is people. This is just as true of the market for laundry service, if not more so, than it is of the market for any other goods or services. And it's just as true, or more so, *today* than ever before.

When we speak of a changing laundry market, what we really mean is the *changing people* who buy, or do not buy, laundry service. It's the people who have changed. They have changed their way of life and, with it, their buying habits. Furthermore, they have been changing ever since the turn of the century. They will continue to change for as long as anyone can predict.

It is important, therefore, when we speak of people as markets today, that we really know what we're talking about.

Do you know *how many* people make up your market, *where* these people live, *what kind of service* they want, *how much money* they have to spend and are willing to pay for your service?

If you do not know the answers to these questions, do you know where you can find them? And, once you have found them, do you know what changes or modifications you should consider making in your plans for the future in order to keep pace with these changing people?

This special issue of STARCHROOM LAUNDRY JOURNAL is presented in an effort to provide the best available answers to these questions. The editors are indebted to the scores of laundryowners in every section of the country who have contributed information about their operations; information vital to a clear presentation of various trends in the industry. These trends all point in one common direction—toward an increasingly larger number of laundryowners gaining a larger share of an ever-expanding market.

We sincerely hope that, in studying this issue, you will find useful ideas which will help you in achieving the same goal.



Masses With Money

WE COULD BEGIN by pointing out that American families are having twice as many *second babies* as they did in 1940. It's a perfectly true statement and it is one of many reasons why our population is growing as fast as it is. But, unless you operate a diaper service department, or are considering starting one, that isolated fact is of little practical value to you.

What you *should* know about our ever-changing population (hence, the potential laundry market) are facts like these:

The U. S. is becoming a one-class market of prosperous middle-income people.

Family units* with \$4,000 to \$7,500 in real disposable income (adjusted for inflation and taxes) now comprise 35 percent of the total, and receive 42 percent of the total consumer cash income. Their number has increased by 44 percent since 1947.

Real disposable income per capita has more than doubled within the last 50 years, and, despite all the additional people, has risen no less than 12 percent since 1947.

* Family units include (1) families consisting of related persons residing together, and (2) unrelated individuals—whether residing alone or with others.

The population, despite a virtual cessation of immigration, is increasing faster than it has in 40 years.

Americans are rapidly changing into a nation of suburbanites. Since 1947 population has increased by 15 million, but population of what loosely may be called the suburbs has increased by something like 17 million. If the suburbs are defined to include any commuting district with single-family dwellings, they would encompass many of the village and small-city inhabitants and some in the central cities. By this definition, suburbia has grown, since 1947, more than the nation itself.

Family expenditures for laundry service

If you are one of those laundryowners who tried to evaluate your market right after the war, throw away the figures and start over again. By all means, erase from your mind any lingering impressions you formed at that time. The above figures are estimates based on the latest available information from the most authoritative government sources. They have been adjusted for the effect of inflation and taxes on the purchasing power

A Changed and Always Changing Market

"So late as 1929 . . . (there) were 29 million family units (80 percent of them all) with less than \$4,000, who together received a total of \$53 billion or 46 percent of total income.

"This bottom group constituted the mass market of 1929. None of its members had a spendable income of more than \$4,000 or about \$2,500 in 1929 dollars. Few of them, manifestly, were in the market for many luxuries, or even for much more than essentials. . . . It was the top and middle groups that were able to keep up with the improvements and innovations in consumer durables. And together these groups accounted for only 20 percent of all family units.

"See how all that has changed. There are now in the U. S., *Fortune* estimates, a total of 51 million family units, 40 percent more than in 1929, who this year will get \$220 billion, or 94 percent more than in 1929. Plainly, the nation as a whole has gained enormously. But look at how this has

pushed families above the \$4,000 level, where, economists agree, 'discretionary' buying power is significant:

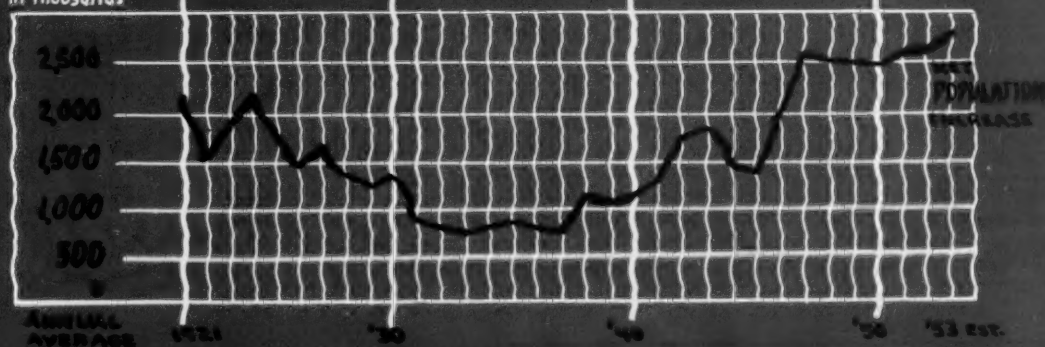
"The \$4,000 to \$7,500 group now contains 18 million family units or 35 percent of the total. And this year they will get \$93 billion or 42 percent of total income. Since 1929, in other words, this group has more than trebled in both numbers and income.

"Furthermore, this new middle market has enjoyed its greatest growth since 1947. Between 1941 and 1947, *Fortune* estimates, the number of family units in it has increased by only 20 percent, and their total income by 21 percent. But since 1947 the number of family units in it has increased by 44 percent, and their total income by 38 percent. The last few years obviously have made the new middle market."

—From "The Changing American Market," *Fortune*, August 1953

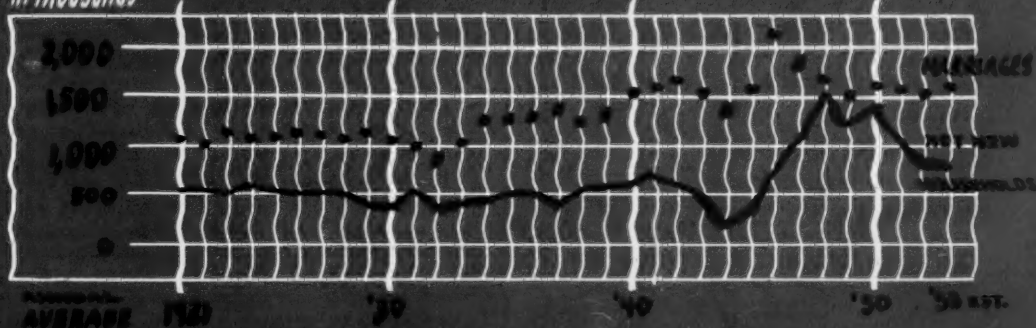
There Are More People . . .

In thousands



POPULATION HAS GROWN more this year than ever before. In the last six years it has grown at a faster rate than in the last 40 years.

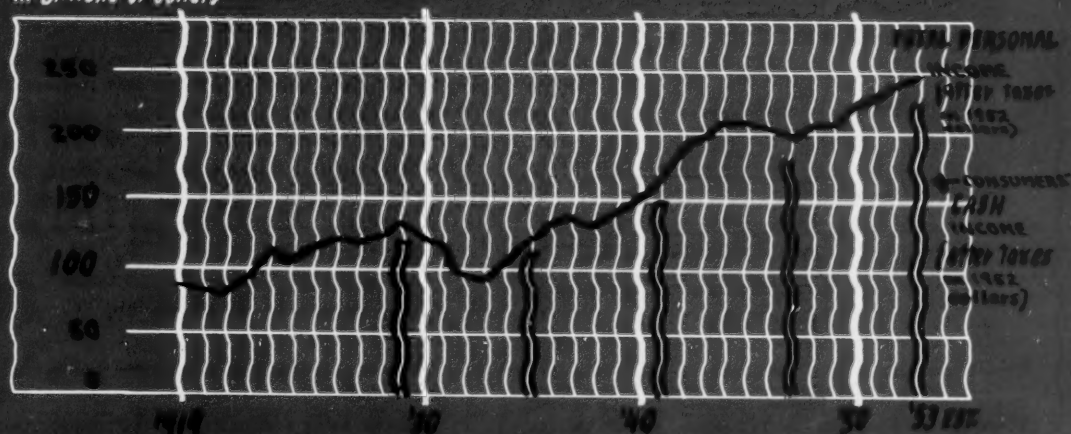
In thousands



NEW HOUSEHOLD FORMATION is holding up better than marriages because aged couples, widows and other single people have set up households.

With Greater Buying Power

In billions of dollars

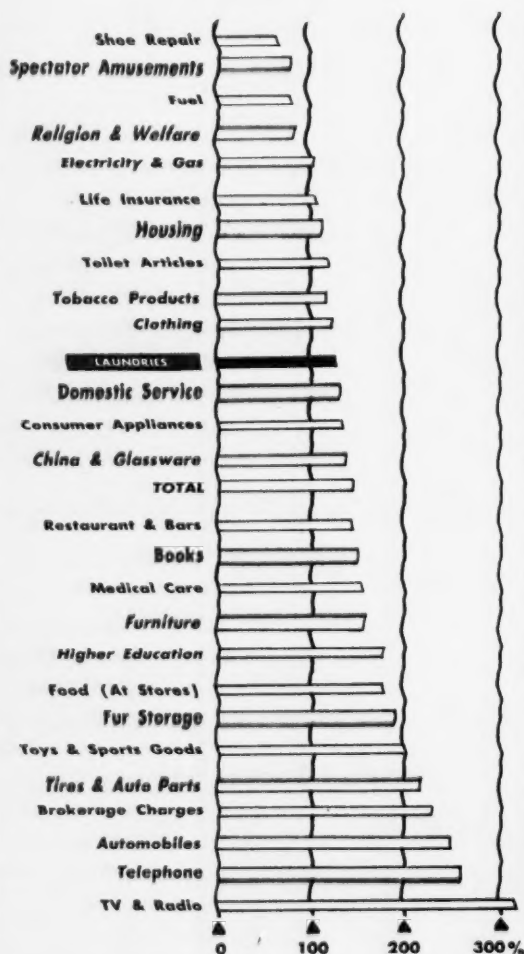


CASH INCOME HAS INCREASED since 1929. Aggregate income of consumers has risen more, both absolutely and percentage-wise, since 1929 than between 1921 and 1929. (Personal income includes food or rent in kind, military subsistence, etc.; cash income is usually what it says.)

Family Expenditure on Commercial Laundry Service—1947

| Income Group | Washington, D. C. | | Richmond, Va. | | Manchester, N. H. | |
|----------------------|--------------------|-------------|--------------------|-------------|--------------------|-------------|
| | % of all Families* | \$ Expended | % of all Families* | \$ Expended | % of all Families* | \$ Expended |
| \$1,000—2,000 | 5.1 | \$18.92 | 12.4 | \$28.41 | 10.5 | \$10.68 |
| \$2,000—3,000 | 16.5 | 40.26 | 28.6 | 32.09 | 25.8 | 23.90 |
| \$3,000—4,000 | 19.8 | 34.86 | 21.9 | 53.58 | 29.0 | 19.71 |
| \$4,000—5,000 | 14.4 | 43.40 | 15.7 | 72.51 | 15.8 | 19.24 |
| \$5,000—6,000 | 18.1 | 75.23 | 6.2 | 72.47 | 7.9 | 55.03 |
| \$6,000—7,500 | 15.0 | 58.04 | 7.3 | 67.33 | 4.7 | 41.67 |
| \$7,500—10,000 | 7.7 | 94.35 | 3.4 | 101.00 | 3.7 | 59.16 |
| Over \$10,000 | 3.1 | 77.62 | 2.8 | 12.60 | — | — |

* A family is a consumer unit of two or more persons. No breakdown of expenditures and incomes for bachelors is available.

**Percent Increase in Consumer Expenditures
1941 to 1951**

Here are some of the items which make up the overall picture of the average consumer's purchases. While his total expenditures rose 145 percent between 1940 and 1951, his expenditures for laundry service rose 125 percent. Possibly because he drove his car more miles, his shoe-repair expenses rose only half as much as the average; while his TV and radio expenditures doubled the average, mostly because TV was new

of the dollar. And they reflect the changes that have occurred since 1947.

Unfortunately, the latest available statistics on family expenditures for laundry service by individual cities are based on information secured by the U. S. Department of Labor in 1947 and they are only available for three cities in the country (see chart). Of these cities, we must recognize that Washington represents a laundry market dominated by salaried white-collar workers to a greater extent than the average community. Either Manchester or Richmond might be closer to the norm.

The information can be used, however, for the purpose of illustrating what very likely has happened in these three markets over the past five years.

In Washington and Manchester, the income group which contained the highest percentage of laundry users was the \$3,000 to \$4,000 group. In Richmond it was the \$2,000 to \$3,000 group. So many families in these groups have been upgraded into the \$4,000 to \$7,500 group, which we shall call the "middle group," that it holds a significance to laundryowners in the three cities. (Remember, the total number of families in the nation who are in the middle group has increased by 44 percent since 1947 and they had to come from lower groups.)

Note that, in 1947, 29.2 percent of the families using

The Two Extremes

In our discussion of the new middle income group of family units we must not completely lose sight of the groups just below and just above. In many communities there may still be a market for wet-wash for those family units earning less than \$4,000. Similarly, there undoubtedly is a market in many areas for a brisk business in hand finished or "deluxe" work for families whose income is higher than \$7,500.

All in all, 58 percent of family units today have a real income of \$3,000 to \$10,000, against 29 percent in 1929.

While it is the middle income group that offers the greatest concentration of customers and prospects in most communities, the laundryowner in many parts of the country will want to investigate the two extremes too.

laundry service in Richmond fell in the middle group. In Manchester this figure was 28.4 percent and in Washington it was 47.5 percent. Applying the 44 percent growth factor, it is easy to see how this group constitutes the greatest concentration of present and future users of laundry service in the three cities today.

Is it safe to assume that this income group constitutes such a concentrated market for the nation as a whole? We think so. It is this income group which has the greatest amount of what economists call "discretionary" buying power, i.e., spare cash left after meeting all expenditures for taxes and the necessities of life. They have the money to buy laundry service if they can be sold on buying it! They represent 35 percent of the total U. S. population today and are receiving 42 percent of total consumer cash income—a rapidly growing

market that seems bound, sooner or later, to become the American market.

Their habits have changed. They live in different places, amuse themselves with different hobbies and diversions. They shop in different stores and they are setting the pace for what these stores sell.

They are also setting the pace for the kind of laundry service which the laundryowner must serve up to them. While their total expenditures for all consumer items increased in the period from 1940 to 1951 by 145 percent, their total expenditures for laundry service rose by 125 percent. But that is not a bad showing at all (as the chart indicates) when compared with consumer expenditures in many other industries. And scores of aggressive laundryowners all over the country are busy doing something to improve the situation.

Where Is "Suburbia?"



THE MOST IMPORTANT CHANGE of the past few years, by all odds, is the rise of this great mass into a new moneyed middle class. And the next most important change involves the movement, or shift, of the population.

The population is not only rising, it is distributing itself and its income more evenly around the country. During the war people moved around more than ever before and the movement has kept up. In nearly every year since 1947 some 30 million have moved—eight to ten million to different counties or states. As a result regional differences in income have diminished remarkably. No longer does one region of the nation enjoy a vastly higher income per capita than another, and vice versa.

The really distinctive feature of the regional trend since 1947 is what has happened within regions. Today more than half the population lives in 168 metropolitan areas, which account for almost two-thirds of the retail volume of the nation. And this shift seems essentially the result of a colossal migration to the suburbs.

What are the suburbs? They may be strictly defined as residential areas surrounding the central cities within the 168 metropolitan areas. But they may also be described as all commuting-residential areas, some in central cities, some in small towns, that consist mainly of

one-family houses. Thus loosely defined, they have probably grown by some 17 million since 1947. The U. S. as a whole has grown by 15 million. In 1929, 60 percent of Americans lived in big cities or on farms; today nearly 60 percent live in suburbs or small towns.

The suburbs, moreover, seem a major factor in today's high birth rate. Nobody knows (yet) whether people move to the suburbs because they have children, or whether they have children because they live in the suburbs. But the fact remains that rising income has enabled millions who never could live in the suburbs to live there; and suburbanites not only want children but have them.

Suburbia is becoming the most important single market in the country. No longer does the city dweller, male or female, set the styles. It is the suburbanite who starts the mass fashion—for children, hard-tops, culottes, dungarees, vodka martinis, outdoor barberies, functional furniture, picture windows, and costume jewelry. All suburbs are not alike, but they are more alike than different. And within themselves they are a remarkably homogeneous market. Just how much more homogeneous than the old central city, with its three or four broad income classes, is discussed in "The Transients," a series of articles appearing in *Fortune*, May-August, 1953. (Continued on the following page)

'Your customers are going to wag their tongues . . .'

(Continued from the preceding page)

Homogeneous is a big word but its importance to a laundryowner is big, too. It means, in this case, that housewives in the suburbs tend to think and act alike in everything they do; and they *talk* a lot, too.

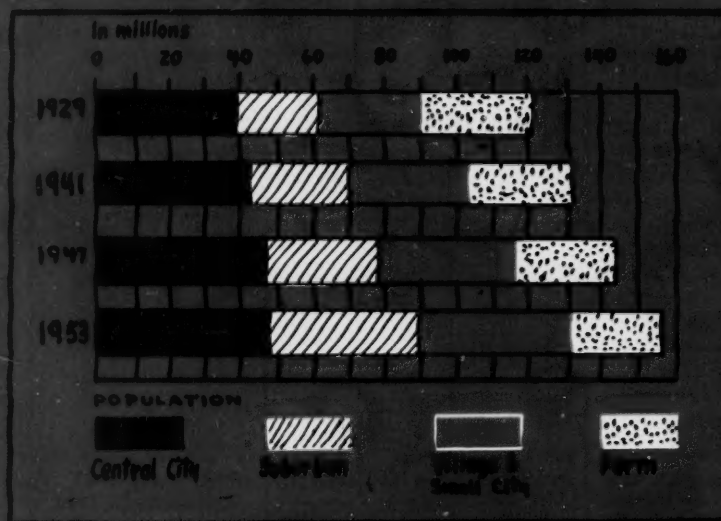
Your customers are going to wag their tongues about you, so you better get them wagging for you. Customer education is the answer and executives at Morey LaRue Laundry in Elizabeth, N. J., have developed a program which works well. They conducted a survey to determine what was bringing in their new customers.

"As a result," says Vice-president Lou Haviland, "we know that 75 percent of our new customers come to us on the recommendation of our present customers."

With this knowledge they devised a series of bundle inserts designed to give their customers something to talk to their neighbors about. "How Do You Like Your Sport Shirts?" "Shirt Collars Turned Free" and other titles were chosen to get the housewife into the cleverly written copy. Enough material was included in the series to make the customers interesting conversationalists on the subject of Morey LaRue.

This is one of the few cases where inserts have been successfully used to secure *new* customers. Many laundryowners use inserts with the erroneous impression that they will be seen by people who are not present customers. Morey LaRue realizes that their customers won't show them to their neighbors but they will *talk* about them if they are made interesting enough.

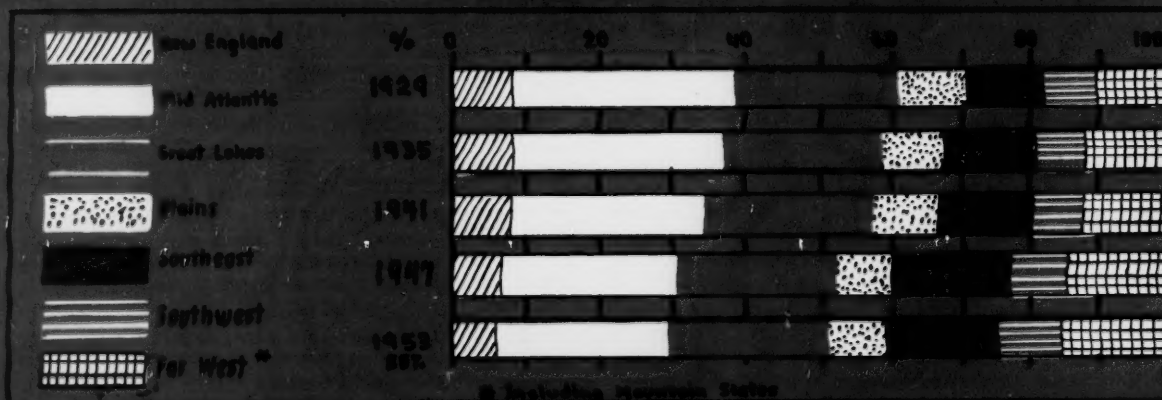
Suburbs Growing Faster Than Nation



POPULATION GROWTH since 1929 is illustrated in the chart at the left. Farm population has declined and central-city population growth has stopped. The suburbs have gained a lot. If they are destined to include any commuting districts with single-family dwellings, they would encompass many of the villages and small-city subdivisions and come in the central office. By this definition, suburbs have grown, since 1947, more than the nation itself.

THE TRENDS toward regional equality of income is illustrated in the chart below. It shows how the South and West have gained more than the Northeast, particularly the Middle Atlantic and New England states. But remember that every region's income has greatly increased since 1929, and the chart merely tells which regions have enjoyed the largest rise in income.

Every Region's Income Has Increased



Where Are Your Prospects?



WE HAVE CONFINED OUR DISCUSSION thus far to a consideration of the sweeping changes that have taken place among the people of the nation as a whole. These changes have been outlined against a national background.

Naturally, you ask, how do all these changes affect me in the daily conduct of my business?

Let's get down to specifics. There are tools available right in your own back yard which will enable you to size up your local market pretty accurately. They will, if you use them intelligently, tell you to what extent these national trends have brought about changes in your home town.

Market research experts have long recognized certain key statistics as valuable in assessing the retail po-

tential in a given area. In addition to the official population figures published by the Bureau of the Census, such statistics include income figures like the ones we have been discussing. They also include the number of automobile registrations; number of telephones in operation (plus the number expected to be installed in the next four or five years); and the number of water, gas and electric meters.

Don't burn the midnight oil

But it is not necessary for you to burn the midnight oil seeking all these figures from the various public utilities and the town hall. Nor is it necessary for you to hire a corps of specialists to ferret out and evaluate this information for you. In the vast majority of cities and towns, all you have to do is contact the nearest metropolitan daily newspaper. Most of these papers are members of the Audit Bureau of Circulations—an organization which, among other things, sets up standard city zones (or trading areas) and requires its member publications to publish certain "vital statistics" in regard to their circulation coverage of the zones in which they operate. As a result, most member newspapers carry their research much farther and make their analyses available as a service to their advertisers.

The Milwaukee Journal is one of America's great newspapers. Here's their own description of how they conduct their program:

"Questionnaires are mailed to a carefully checked random selection of families but must be personally returned to the survey office. Thus, the housewife and husband fill in data unhurriedly in the home where the products are used. After the questionnaire is completed an interviewer goes over it with the respondent at the survey office. The correct number of interviews, to a fraction of a percent, area by area, is determined. Over the years consistent trends in many product lines and basic habits have proved the over-all cross-sectional contact. Incomes, rentals, ages of respondents indicate proper representation for the full 5,000 family sample.

"Proper percentages of returns to assure true cross-sectional representation of families in proportion to population by census tracts and areas are obtained by controlled mailings of questionnaires. Three mailings are used, carefully supervised over a two week period to assure returns desired. Five days are given for returns in each mailing.

"In 1953 the first mailing totaled 2,448 questionnaires, of which 2,045 were returned. A detailed record

The Value of Surveys

In 1953, for the first time, a survey conducted by *The Milwaukee Journal* included questions on use of laundry and drycleaning services. Two very significant statistics developed from the survey:

First, 22.1 percent of the families in the Milwaukee area have their drycleaning done by one company. Since that company serves a somewhat smaller area than was covered in the *Journal* survey, this probably represents at least 25 percent in the area actually serviced. Thus approximately 50,000 families (or households) are the company's customers.

Second, 14.1 percent of Milwaukee's families bring their shirts to that cleaner. This would indicate that nearly two-thirds of his cleaning customers are also shirt customers.

A third important point about the firm came from a private survey which they conduct annually on their own. It shows that over 75 percent of their new customers come to them on the recommendation of satisfied customers.

'... where else can a laundryowner find such detailed information?'

is kept day by day while the questionnaires are coming in and accumulative percentages are computed for the proportionate return from the various sections of the city and suburbs.

"As each individual questionnaire is returned, a card for that particular family is transferred from the 'out' file to the file of families whose questionnaires are 'in.' A reminder, or follow-up card is sent to the families remaining in the 'out' file at due date.

"After current population of each survey area is determined, proper distribution of questionnaires in proportion to the sample must be arranged. Thus, in preparing the 1953 Consumer Analysis, it was found that the city of Wauwatosa had 4.1% of the total family population of the Greater Milwaukee area. In a sample of five thousand, 205 questionnaires would be needed from this suburb. Therefore, 277 questionnaires were mailed, of which 206 were returned. This area sampling method was followed for each of the other 33 main districts.

"Questionnaires for the city of Milwaukee were coded both by census tracts and by districts . . .

A two percent return

"Questionnaire returns in the Consumer Analysis represent more than a 2% cross-section of all Greater Milwaukee families. In 1953, 79.2% of all Consumer Analysis questionnaires delivered were personally returned.

"Sufficient time is given families receiving questionnaires to permit them to be filled in unhurriedly at home where each family has the opportunity to check brands accurately. The completed form must be returned to *The Milwaukee Journal* building by a responsible adult member of the family, usually the housewife . . .

"The area covered by the Consumer Analysis is the Audit Bureau of Circulations' Milwaukee City Zone.

"Population in each of the 34 main areas must be determined each year in order to obtain proper density of questionnaire returns from each area. Family population is computed by analyzing current building permit

records, gas meter and electric meter registrations . . .

"Accuracy in Consumer Analysis findings is helped not only by replies being made to questionnaires in the home where correct information is available, but is aided further by the manner in which replies are checked. When the questionnaires are brought by responsible adult members of families to *The Milwaukee Journal* building, a staff of 11 interviewers check all replies on each questionnaire. When a *Journal* interviewer

Other People's Problems

Whenever a laundryowner thinks that trends are moving too fast for him to keep up with, he should find consolation in a recent statement by Conrad Hilton, the hotel tycoon.

He said, "Motels and roadside hotels have come to stay. They will grow and grow. Designed to fill a positive need, they may be the hotels of the future. They will develop character of service, becoming better and better, and in many ways completing the cycle from country inn back to country inn."

He has problems too!

accepts a questionnaire, a personal code number is written on the first page, indicating who was responsible for checking the information . . .

"The 1953 Consumer Analysis obtained information regarding approximate yearly family incomes as an index of buying power. A chart on this page tabulates family incomes according to the seven classifications covered.

"Answers to questions in the 5,000 questionnaires are analyzed and totaled. Sample totals are then projected against the actual total of 272,008 families in Greater Milwaukee. For example, in 1953, 86.6% of the families answering questionnaires said they bought potato chips. Projected to include the entire market, the families who buy this product number 235,559. Brand popularity is handled in a similar manner."

How does the *Journal* get such a high percentage of these families to bring their replies to the central office in person? That's easy. They present them with a free shopping bag full of grocery and drug products. This is made possible through the cooperation of manufacturers of these products who recognize the excellent opportunity the survey provides for high spot metropolitan area sampling.

It is true that this survey was conducted to determine the brand preference of Milwaukee families for nationally advertised and packaged merchandise. And, inasmuch as laundries do not produce such merchandise, the exhaustive data in the printed report (consumer preferences for foods, soaps, toiletries, beverages, etc.), is of no value to a laundryowner.

But where else in Milwaukee can he find, in a single source, such detailed information as: number of dwelling units by types; residential telephones; passenger car registrations; and households with gas, electricity, radios and television?



"I might as well tell you . . . I never really intended to send my work to another laundry."

Note that much information concerning population by suburban areas within the greater Milwaukee area is included. By comparing this year's report with those of the past, population shifts can be pretty accurately determined.

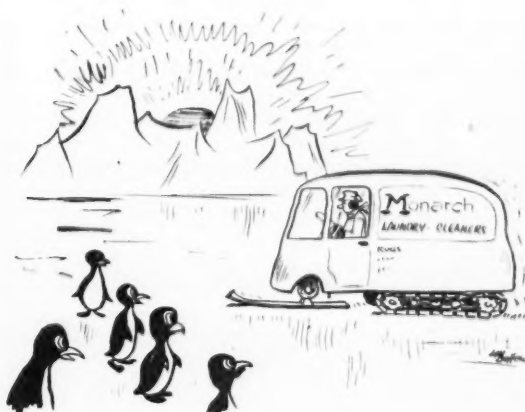
The report reveals that 56.8 percent of Milwaukee families earn between \$4,000 and \$7,000 annually. That certainly squares up with the national picture of the new moneyed middle class.

We can't help wondering how many laundryowners have already thought of riding the coat tails of similar newspaper surveys. Even though they are primarily concerned with brand preferences (as noted above),

laundryowners could arrange for including a few simple questions concerning consumer preference for laundry service. The newspaper would not be interested in publishing the findings in the completed report but the information would be invaluable to the plantowner.

Sixteen other metropolitan dailies in as many cities, located in nine states plus the District of Columbia and Hawaii, operate surveys and prepare standardized reports in the same manner as *The Milwaukee Journal*. Hundreds of other newspapers located all over the nation gather similar information and prepare useful reports of a like nature. Why not contact your local paper and see what they can do for you?

What's Your Next Move?



AFTER SURVEYING THE LOCAL MARKET you will have a fairly accurate picture of the potential for laundry service in the community you are serving. From this picture you can easily see where the changes in your community are occurring and determine if you are keeping pace with those changes.

If you are considering entering a "virgin" territory, the survey will likewise give you an insight into the potential of that market. In either event, the next step is to consider the best way to go after the business.

Should you open a drive-in or a walk-in?

Should it be a store operation only or should you process bundles on the premises?

If you process bundles at the new location, how many services should you finish there; and how many (if any) at your present plant?

Let's start with a discussion of the drive-in vs. the walk-in.

After World War II, laundryowners started building drive-in plants and drive-in pickup stations like mad in all sections of the country. Then with the flurry of controls being reestablished, the flurry of drive-in building died down. But now, once again, we are being

flooded with requests for "all you can tell me about drive-ins."

The drive-in has the biggest potential market of any type of laundry outlet, no matter what kind of community it serves (residential, industrial, rural). Stores and routes are restricted to the immediate areas they serve. Downtown stores draw on shoppers and business people who can't carry many bundles, yet frequently find the stores many blocks from where they're going.

Another reason for the success of drive-ins is the opportunity for showmanship. There is a limit to what can be done to decorate trucks. Stores, however beautiful, tend to get lost among other stores. This is true with even the most modern-looking stores these days because all merchants have spruced up so greatly that a dowdy store is the exception rather than the rule in many communities.

The drive-in is isolated by its own parking space. Isolation gives it individuality and dignity. It has room for signs, billboards, lights, windows, shrubbery. It does the volume necessary to spend a sizeable amount of money for promotion.

Another problem becomes easier for the owner of a drive-in. Newspaper, radio, TV and directory advertising become more useful because he can draw more business from the whole city instead of just his neighborhood.

(Continued on the following page)

'... it is a mistake not to provide for a loading door'

Continued from preceding page

There are two difficulties to watch for in locating a drive-in.

First, because of its higher overhead it *must* do a greater volume than a walk-in store in the same location would need to break even. At the same time it has to be laid out and organized so that larger volume can be handled quickly and efficiently.

Secondly, the neighborhood must have adequate parking space for other merchants next to the drive-in plant or store. Otherwise, the drive-in is better off by itself with no other merchants around. If parking space is at a premium, customers won't hesitate to leave their cars in the drive "for just a second," tying up the drive-in area for 10 to 30 minutes at a time. Nor will space at one side for three or four cars help much, as the drivers then tend to stay even longer.

The drive-in store (or plant) has one great advantage over the walk-in. There is always room for the relay truck to load and unload. It is advisable to have a separate door for this. Preferably it should be at the end of the building in a corner of the parking area. It may be advisable to "zone" it with curbing or even a screen so customers won't block it off.

When designing a drive-in it is a mistake not to provide for a loading door, even though you have no intention of operating a route. There are a number of possible uses besides the route, such as sending extra work out, doing work for smaller stores you may operate, or even parking the boss's car.

There are many variations of the "drive-in." One is the "drive-through," which requires access to two streets or to a street and an alley. It has the advantage of usually being under cover, and the disadvantage of being easily plugged by one car slow to move on. A drive-through also usually requires a right-angle turn off the street. Where a drive-through is necessary because of space restrictions there is also usually heavy pedestrian traffic on the sidewalk to hamper movement of cars.

Some laundryowners are having success with a bank-type drive-in. The customer drives up to a window or Dutch half-door. He hands his money and bundle through the window to the store girl without moving from the car. A canopy over the window protects the transaction. This isn't as slow as it sounds because the girl at the window does almost no walking on pickups and the cash register is right at her hand. One girl at a window can handle cars faster than a single carhop who gets her own bundles from the storage bins.

Drive-in Brings Rapid Volume Rise

JUST FOUR MONTHS after the drive-in shown at the right was added to the plant of Acme Laundry and Cleaners at El Paso, Texas, total plant volume showed an increase of approximately 30 percent. The increase, according to R. N. Compton, secretary-treasurer of the company, was due almost entirely to the new drive-in facilities. At that rate of growth, he expected a 50 percent increase by the end of the year.

The drive-in building, added at the rear of Acme's almost-block-square plant, is 65 by 35 feet. A canopy extends out over two lanes which are 18 feet wide; that is, each lane is 9 feet wide less the space for a dividing island.

Operation experience at the drive-in has brought out the fact that these lanes are too narrow. The management says the lanes should have been at least 22 feet wide where they go under the canopy. This would give drive-in service employees more room to handle car calls, also would allow the customers a much easier approach and departure.

While some cars are served through an open car window, it has been Acme's experience that in accepting work and delivering laundry bundles and drycleaned garments on hangers, it is necessary to open the car door, often a door on each side. These facts should be taken into consideration, Mr. Compton explains, in working out plans for drive-in or drive-through lanes.

One of the first requisites of a successful drive-in operation, this Texas operator has found, is to make the facilities so convenient that the customer falls into the habit of using them.

"Aside from the easy approach and departure," Mr. Compton said, "we have found that the next most important factor in successful drive-in operation is the speed with which the customer is served, particularly when the bundle is being picked up. The attendant should be at the car window before the car stops. With business spotty as it always is at a drive-in, we have had some small difficulty in keeping the attendants busy and on the alert during slack time. This requires rather rigid supervision and no little amount of training. During the rush hours we have no trouble of this kind at all."

At Acme, high school and college boys are used as drive-in attendants. They learn quickly and are fast.

When the drive-in was opened a public address system connected the island between the two lanes with the garment and bundle storage department. This did a good deal to speed up deliveries. However, it was found that another P. A. outlet was needed at the cash register, and this was installed.

At both sides of the covered two-lane drive-through there is an inset parking area. These areas will handle four to six cars without interfering with the drive-through area.

Acme is so pleased with the results of its plant drive-in that it is now contemplating locating a second drive-in in an outlying shopping center.

"After our short experience with the operation," Mr. Compton says, "we are convinced that the only way to hold customers at a heavy traffic location is through offering a drive-in facility."

'... a morning and evening traffic count taken'

Something we have seen only once—but feel could be used more often where the city fathers don't object—is a portable receiving station. The operator didn't have a drive-in. So he built a little shelter on wheels. It was large enough to hold a couple of hampers and an attendant. During the morning rush hour this station was rolled to the curb where the attendant took in bundles as fast as the cars swept up alongside. After the rush it was rolled back out of the way.

The vital importance of location to the success of a drive-in is pointed up by the careful planning for a new plant done by an Oregon operator. His 37 years experience in the industry has included the site selection and building of two previous drive-in plants.

The first step, he says, is to check all available locations on main thoroughfares leading to the downtown business district. The location must be on the right-hand side going into town.

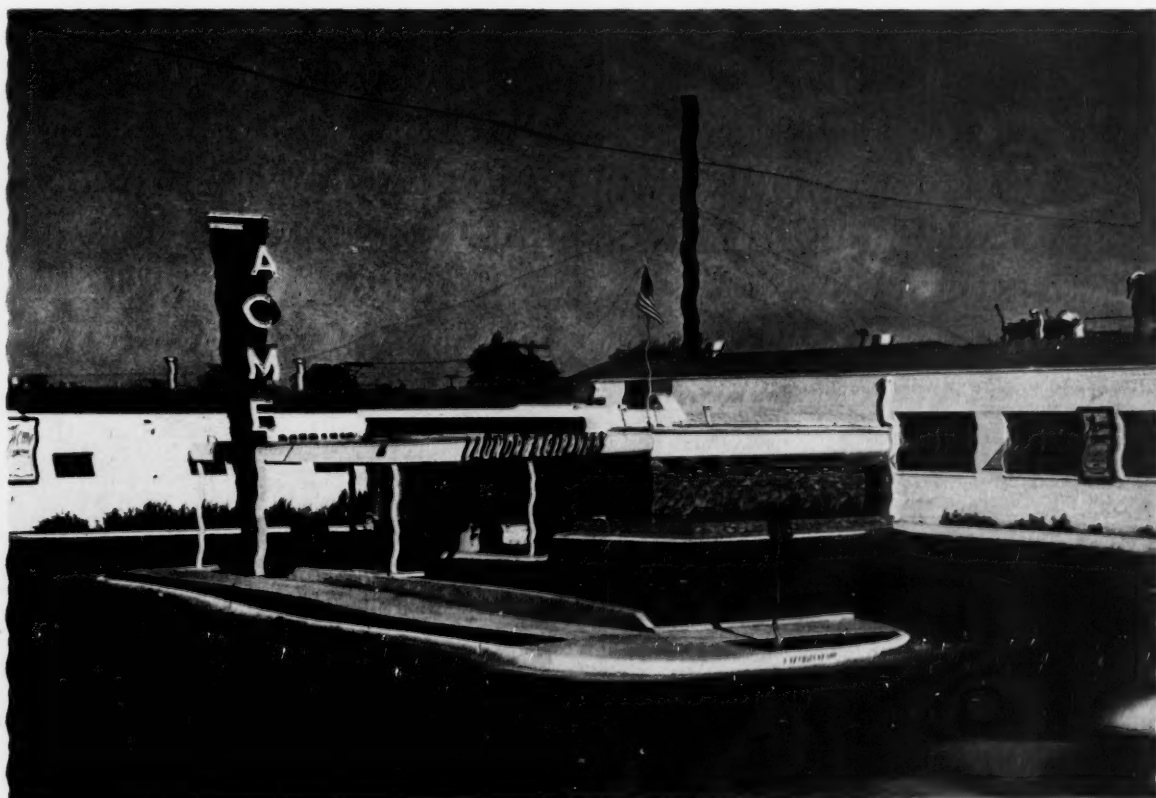
The perfect location is midway between two traffic lights which should be at least four blocks apart. That is because city traffic lights on main thoroughfares, when four blocks or more apart, are set so that with average traffic there is a slowdown with a clear street in the two center blocks for several seconds before the lights change.

This setup gives the morning traffic a mid-light break, so that if the drive-in is between lights it is easy for drivers to turn in there. It is also a boon for drivers coming out in the evening traffic to have a clear way for crossing the street when returning to pick up their finished work.

He was able to select a location which had this mid-traffic-light advantage, but before he contracted with the owner for the property he consulted the city traffic department. He checked with traffic engineers on any pending or probable change in the thoroughfare or change in the traffic-light location.

"In recent years," he explained, "there has been so much shift in population and change in city traffic regulations and operations, that I feel it is essential to make sure the drive-in location you contemplate is not on the city traffic revision program. In the case of our drive-in, I spent several days with the city officials. Besides finding out that there was very little possibility that traffic movement would be changed in front of our plant, I received from the officials a morning and evening traffic count taken within two blocks of our location."

Another factor which influenced him was the fact that within a half-mile radius of the location there were more apartment buildings than single-family homes. This



Don't Neglect Pedestrians



WHITE LINES mark off the parking area at Pantorium Drycleaner's in San Diego, Cal. A long frontage, with most of the plant set back from the sidewalk, gives them maximum flexibility.

Note that the drive-in entrances and exits are wide enough and at a flat enough angle to permit cars to edge in and out of the highway traffic. Drivers should never be forced to make a 90-degree turn to get in and out; 45 degrees is the sharpest that should ever be necessary.

Enough space must be provided in the parking area to permit the cars of those customers who do not want to park and enter the store to be headed out as they leave. Under no circumstances should they be forced to back on to the sidewalk or into the street before they can get headed in the right direction. Neither should the sidewalk ever be obstructed by parked or waiting cars. Pedestrians can be customers, too, if they're not mad at you!

In your eagerness to accommodate car-borne customers, don't make it hard for patrons from the neighborhood. There should be a sidewalk for them leading to the store door. It should be high enough to keep cars from running up on it, and wide enough so that overhanging bumpers don't obstruct it. Preferably it should be guarded by a rail or posts.

If the plant is L-shaped or set diagonally across the lot, it may be wise to provide two entrances. One near the street sidewalk would be for walk-in customers. The other midway of the parking area would serve the drive-in customers.

These customers can be separated even further, to the great advantage of both them and the plant personnel. The storage bins for the walk-ins can be grouped nearest the street door, while those for the drive-in customers center around the drive-in entry.

This separation not only speeds up service to the customers; it can also help in routing finished bundles from the plant to the storage spaces. All walk-in customers' work can be written up on blue sales slips, for instance, while drive-in customers get white tickets. Or invoices beginning with odd numbers can be allotted to drive-in customers; those beginning with even numbers to the walk-in trade.

meant three times the usual density of population within six blocks of the plant, indicating that there should be a strong walk-in business during the daytime as well as the downtown drive-in business in the morning and evening.

Still another influencing factor in selecting the location, which is east of the downtown business district, is a strong tendency on the part of new home builders to select locations in the easternmost suburbs. A comparative traffic count showed a 35 percent increase in traffic at this location in the previous 18 months.

In addition to a window where the customer can deliver and receive his bundle without getting out of the car, the new plant will have two double doors with a divided plate-glass front. Two shirt units will be located behind one section of glass front and a part of the drycleaning finishing room behind the other. He believes that it is a mistake to have a glass front show only the counter and store fixtures.

"When passers-by see shirts being finished by uniformed operators, they naturally think of us the next time they have shirts to send out. I think one of the finest 'billboard advertisements' is a plate-glass window at the plant with plenty of activity behind it."

Regardless of how much time and care goes into the selection of a drive-in location and the building of a drive-in plant, there are bound to be mistakes, in his opinion. So he suggests that after you have done everything you can think of in preparation, "take ten" before the ground is broken. By taking ten he means take an additional ten days to check, recheck, and double-check everything you have done!

Walk-ins are not outmoded

All this does not mean that stores, with or without processing equipment, are outmoded outlets for laundries. (No more than it is to say that a laundrywowner should sell all his trucks; abandon his profitable routes.)

In the exceedingly densely populated metropolitan centers where there is no room, and frequently no automobile traffic, for drive-ins, the store is still performing its function efficiently. The old rule-of-thumb for store volume seems to have gone by the boards, however. Time was when it called for a minimum of \$500 weekly volume (or at least as much as a profitable route) to be a money-making operation. Today, \$750 would probably represent a more realistic figure; especially in the very largest cities, where clerks' salaries run high.

If stores could not be operated profitably in heavily



"I like your idea of a drive-in, Mr. Davis . . . but couldn't you make the entrance just a little wider?"

'People just don't like to lug their laundry all over town on foot'

populated cities, operators like Consolidated Laundries Corp. in New York; Morey LaRue Laundry in New Jersey; and Miami Laundry Co. in Florida would not be conducting part of their business from them. But the important thing with stores, as with drive-ins, is to place 'em where the business is; and that means where the people are.

In most expanding communities, however, the drive-in would seem to "get the nod" over the store, all other factors being equal. People just don't like to lug their soiled laundry all over town on foot.

The Piggly-Wiggly experiment

One development, which STARCHROOM reported on last April, is the laundry operation located in the Piggly-Wiggly supermarket in Beloit, Wis. A second one was opened in Rockford, Ill., by the same owners. Both are doing well and we emphasized at the time that it might be the beginning of a trend.

It's still too early to predict. An inquiry of the grocery store trade publications reveals that, of 1,200-odd new chain stores built in 1952, laundries were incorporated in only four.

Yet the management of the Piggly-Wiggly laundries states that, while a supermarket would be happy with \$10,000 net before taxes on 5,000 square feet of food and drug space, they can figure on the same net from only 1,400 square feet of laundry space. Also, 65 to 75 percent of the average supermarket's business (in some cases, 80 percent) is conducted on Fridays and Saturdays. One of their most critical problems is that of devising ways to even out the traffic flow. Installation of laundries could be part of the answer.

If the housewife can drive to the supermarket, it is possible that she will take along her bundle and shop while it is being processed. But, if she must walk? No!

A laundryowner who cannot afford an elaborate drive-in (or doesn't want to lay out the cash) may want to watch this development. It could be an excellent means for "testing" the market in a new supermarket located in or near a shopping center. If the test proved satisfactory he could consider opening his own, separately housed operation in the immediate vicinity.

Certainly a laundryowner knows how to operate a laundry better than a supermarket operator. And, in some communities, it could serve as a wetwash plant plus a "feeder" of fluff-dry and family finished work for his main plant.

Laundries depend on people, and people have to eat. Therefore, a laundry located near a place where people go to buy their food should enjoy some advantage over the plant which is located in some inaccessible part of town.

In this connection, it is interesting to note that, among retailers, food stores and branches of large department stores are among the forerunners (indeed, the instigators) of the movement to the suburbs. This great movement away from the crowded and congested parking areas has affected every segment of retailing and every sizeable retailer. One can see it in the West where even 20,000-square-foot supers have moved away from downtown locations to large shopping centers in which 30,000-square-foot stores are the accepted thing. One sees it in the Midwest and the South, in both the cities and the small towns, where stores have moved to new

locations in which to spread their wings. It is evident in the East where chains and independents vie with one another to grab off the supermarket spaces planned in newly-built suburbs or newly-developed districts.

Such a profound change in size of store and type of retailing came about because of certain basic changes in the American way of life. These are, according to Geoffrey Baker and Bruno Funaro in their book, "Shopping Center Design and Operation":

1. Increase in buying power, particularly by the lower and middle income groups.
2. Change in retail pattern to self-service and the supermarket.
3. Increased ownership and use of autos.
4. Shifting of the population which, in the last decade,

Is Main Street Dying?

Does the shopping center spell the doom of the established downtown shopping area? To listen to the fervent espousers of the shopping-center idea, one would conclude that nobody is doing any business at all on the Main Streets of the nation.

With all the traffic jams, poorly planned streets, hodge-podge arrangements of stores, unesthetic welter of bigger and flashier signs and all the rest of the evils of the downtown areas, it's still difficult to find space to rent on Main Street. Store traffic is where people are, and it's the people that make for congestion—and sales.

And Main Street is doing something to relieve the situation. The law of physics that reads, "Every action must have an equal and opposite reaction," seems to apply to Main Street in its fight to maintain its position in the face of suburban shopping-center competition. Parking plans, modernization plans, highway plans are snowballing in volume.

With it all, the shopping center is going full steam ahead. Part of the reason lies in the growth of the population in suburban areas—an old story to chain store men who make it a point to find out where people are. Part of the reason lies in the automobile—a point that does not have to be belabored.

Population gains in cities throughout the country are small compared with those of the suburbs. Comparison of the 1940 and 1950 populations of the 32 biggest city areas indicates, according to the 1950 U. S. Census, that suburban-plus-city population increased about 37 percent while the cities themselves grew only about 11 percent. And suburban growth since 1950 has undoubtedly accelerated.

'The Skinners believe in following the people . . .'

brought about a tremendous movement to centers of population from the rural areas and a movement out from the crowded cities to the suburbs.

Each of these four factors played an important part in the relocating of food stores. The most important of all, in our opinion, is the fourth—the shift in population. This shift and the scarcity of parking space in downtown areas brought on the tremendous development of neighborhood, regional and community shopping centers. Coupled with the need for bigger stores and the need for shopping space, it caused the more alert operators, even in the smaller towns, to move just to the edge of the business center or village square. The more alert laundryowners are aware of this shift, too.

A. C. Skinner, Jr., of Oriental Laundry in Corpus Christi, Tex., will appear on the program of the American Institute of Laundering's annual convention in Los Angeles next month. He will speak on this subject. Together with his father, he has been active in the laundry business in Corpus Christi for the last 17 years. Most of the time the Skinners have been busy figuring out ways to keep pace with the trends down there. Their main plant is a super drive-in. In addition, they have opened and successfully managed three smaller drive-ins (with production facilities) since the war.

The Skinners believe in following the people to the shopping centers when establishing a drive-in. Their experience has taught them this. But they do not believe in locating right in the shopping center. Says A. C., Jr.,

"Location is the most important single factor to success. Be sure you are in a densely populated area. Don't go into a community shopping center if you don't have to. Be near one, to be sure. But, if you have to go into one, get a corner location. Don't go into the middle of the block."

In a recently conducted spot-check, *Chain Store Age*, the business publication for chain executives, came up with some interesting information regarding the distri-

bution of selling space in planned shopping centers. The check covered 43 centers of various sizes in 34 different cities, located in 15 states across the nation.

It revealed that 51 laundry and cleaning stores, occupying a total of 76,000 square feet of selling space, were located in the 43 centers. They accounted for approximately 1.1 percent of the total (some 6.5 million square feet). The average size of each store is just under 1,500 square feet.

Laundry-cleaning stores were twelfth on the list of stores arranged by classification of business (see chart). Department stores were in first place, accounting for 32.6 percent of the total space. Supermarkets, with 14.6 percent, were second; and variety stores, with 13.4 percent, were third. Although apparel stores account for 8.5 percent of the total selling space, it takes 173 of these stores averaging not quite 3,400 square feet to make up that figure.

Drug stores account for 5.3 percent of the total selling space, and average 6,500 square feet apiece. There are 56 drug stores in the 43 centers checked. The 84 shoe stores run slightly under 3,000 square feet in average size and account for 3.6 percent of the total space occupied in the centers.

The May 1953 issue of *Chain Store Age* published a summary of shopping centers, planned or under construction. It includes a state-by-state listing of hundreds of sites and, in most cases, tells the status of progress plus the number of store sites and the size of the parking facilities (by number of autos) planned. The editors state that every effort has been made to present a complete list of centers that are in the planning or early construction stages but there are undoubtedly many centers on which they did not receive information. Future issues will carry additional listings for the active files of interested people.

Laundryowners who are interested in keeping abreast of shopping center plans might do well to get a copy of these lists as they appear.

Breakdown of Occupancy in 43 Shopping Centers

| Type of Store | Total Selling Space (sq. ft.) | No. of Stores | Type of Store | Total Selling Space (sq. ft.) | No. of Stores |
|------------------------------|-------------------------------|---------------|----------------------------|-------------------------------|---------------|
| Department Store | 2,228,000 | 42 | Sewing | 31,000 | 11 |
| Grocery | 990,000 | 70 | Gas station | 29,000 | 3 |
| Variety | 817,000 | 50 | Candy | 24,000 | 23 |
| Apparel | 584,000 | 173 | Florist | 23,000 | 19 |
| Drug | 354,000 | 56 | Liquor | 23,000 | 14 |
| Shoe | 247,000 | 84 | Beauty salon | 22,000 | 21 |
| Furniture, houseware | 205,000 | 37 | Photography | 22,000 | 16 |
| Bank | 191,000 | 27 | Bowling alley | 22,000 | 2 |
| Hardware | 155,000 | 26 | Fish, poultry | 19,500 | 14 |
| Restaurant | 150,000 | 34 | Butcher shop | 15,000 | 9 |
| Auto accessory | 77,000 | 20 | Shoe repair | 13,000 | 16 |
| Laundries and cleaners | 76,000 | 51 | Barber shop | 9,000 | 16 |
| Theatre | 59,000 | 4 | Delicatessen | 9,000 | 7 |
| Bakery | 52,000 | 29 | Newspaper, printing | 9,000 | 3 |
| Jewelry | 48,000 | 31 | Paint | 8,500 | 6 |
| Toys | 42,000 | 17 | Fruit, vegetable | 8,000 | 5 |
| Books, gifts | 40,000 | 31 | Upholstery, floorcoverings | 7,000 | 4 |
| Sports, hobbies, kiddie shop | 35,000 | 16 | Decorating shop | 6,000 | 3 |
| Radio, TV, music | 34,000 | 15 | Optometrist | 3,000 | 6 |
| Wallpaper, curtains | 31,000 | 12 | Dance studio | 3,000 | 2 |
| | | | Luggage | 3,000 | 3 |

Ask Yourself These Questions



THE BEST WAY TO CRYSTALLIZE your thinking about adding a drive-in to your present operation is to ask yourself some of the questions which have occurred to other laundryowners when they have thought along these lines. The following questions and answers may not cover every detail. However, they do reflect the thinking of laundryowners across the nation.

Why have drive-ins been so successful?

Drive-ins reduce the cost of getting laundry service into the hands of more people, while bringing its cost within the purchasing range of a wider market.

What is the pulling power of a drive-in?

1. **Convenience.** Many customers have found it more convenient than route service. As one big operator in the industry puts it: "You can sell *anything* if you make it *easy* for people to buy it."

2. **Showmanship.** Drive-ins have put glamor into an unglamorous commodity. And the most outstanding operators of this type of service have used every device of size, color, illumination and display to enhance its appeal to the eye as well as the pocketbook.

3. **Economy.** In most drive-ins the customer gets a given service at lower cost by performing the pick-up and delivery function. This discount has a "bargain" appeal that cannot be surpassed as a buying stimulus.

Why is it called "drive-in"?

1. Because this type of business is designed to secure most of its patronage from motorists, not pedestrians. Approximately 95 percent (probably more) of the volume will come in automobiles.

2. Because the term is *inviting*. It says "Come in!"

3. Because the alternate designation of "cash-and-carry" sounds cheap.

Where should the drive-in be located?

1. It should be situated (a) on, or conveniently adjacent to, a principal thoroughfare between a good residential area and the city's business districts; or (b) in, or just to one side of, a shopping center; or (c) in, or on the downtown edge of, a good residential section.

2. It should be on the right-hand side of the street for downtown-bound traffic.

3. It should be on a corner if possible—the far corner of a street intersection. This makes it easier for customers to drive in and out of the parking area, and provides maximum display possibilities.

How large should the parking area be?

No matter how small the contemplated volume may be, the lot should have not less than a 60-foot frontage and a 30-foot depth. This will allow for two lanes of cars, plus parking area for customers who wish to enter the store.

That area easily will take care of a volume of \$1,500 per week, and, with only a slight slowing of service, could accommodate \$1,800. Beyond that point, add one square foot of space per dollar of additional weekly business. (For example, a plant doing \$3,500 per week should have at least 3,500 square feet of space—perhaps a 70-foot front and a depth of 50 feet. A 90-foot front with a 40-foot depth would be better.)

Another rule-of-thumb is that the parking area should be at least one-third of the total plot area. But one truth has been definitely established: *The parking area can't be too big.*

What is the most satisfactory parking arrangement?

There are, basically, three ways that cars can park for drive-in service: (1) head-on, at right angle to front of plant; (2) in lanes, parallel to the plant's front; and (3) angular parking.

Head-on parking is bad because cars in the second row prevent those in the first row from backing out. Parallel parking is not too good because cars can leave the lane only in the same order that they enter it; thus if the front car is held up for some reason, all cars are held up. This is most serious, for speedy service is a drive-in's number one drawing card and sales feature.

Angular parking is better because each car can be on its way when ready without disturbing or being disturbed by other cars.

Best of all is to have rows of angular parking spaces, with traffic lanes between the rows, and each space open at both ends. This permits cars to enter the spaces easily, and to go forward when leaving. It is important that there shall be a minimum of backing, turning and maneuvering. One car smashing into another dents more than fenders. The laundry's goodwill suffers still greater damage.

How should customers be served?

The size of a drive-in parking area is less important than the speed and smoothness with which the customers are handled, particularly in rush hours. Efficiency in handling the rush-hour crowd may make a difference of 10 or 15 percent in a year's gross volume. Customers will begin to shy away from a drive-in after they get caught in the traffic stream a few times while waiting

'Carhops rarely prove profitable on a full-time basis'

to get into the driveway. Granted, they will still come on Saturdays, or send their wives during the week, but the tendency is not to come quite so often.

When carhops are being used, a reasonable goal is to average about a minute per car for receiving bundles, two minutes per car when returning them. Carhops work most effectively if they stay on the outside, with other employees getting the bundles from the storage bins and passing them out to the carhops.

By using intercommunication systems, the carhop can call in invoice numbers or customers' names for three or four cars. Or she can call in for an order, have the attendant call back the price, and bring in the money when she goes after the order.

In a big operation with three to six or more carhops, it is advisable to construct a cashier's cage. Thus the cashier can handle the carhops in rotation as they line up; otherwise handling the cash can become a madhouse.

If there are only one or two carhops they can use changemakers on belts, starting with about \$10 in change. It is important to have some way of identifying the order handled by each individual to avoid the possibility of money being held back by the carhops.

Carhops rarely prove profitable on a full-time basis. They are generally used at rush hours only. Fortunately, school hours in most places permit the use of high school youngsters for an hour or so in the morning and two or three hours in the evening when they are needed most.

Oriental Laundry in Corpus Christi, Tex., employs sailors as carhops in the morning. The men come off the late watch at the nearby naval air station. This work is handled in the afternoon by schoolboys. Before the counter girls come to work in the morning the sailors handle the store counter too.

Of the sailors, the office manager says, "They're fine employees. They're good, dependable boys who want to earn a bit of extra money and our pay compares with any part-time job in the area. Generally speaking, they're intelligent and require very little training. Our customers have given them their stamp of approval."

Carhops are not a necessity for drive-ins when there is enough parking area to handle cars during rush hours. The important point is to keep a line of cars from forming outside, or a line of customers from forming at the counter on the inside.

A newer development in drive-in is the self-service idea, in which the customers leave their cars, enter the call office, pick their own bundles off the shelves and pass out through a turnstile at the cashier's cage. This system will eliminate the need for carhops, and it will simplify the task of collecting for bundles and making change. But it will entail longer tie-up of cars on the parking ramp. It is less convenient for the customers, slower and much less spectacular.

What formula is used to determine storage space?

The length of service offered (two-day, three-day, etc.) and the system of filing bundles will affect the

The Drive-in Location Problem

TWO DRIVEWAYS permit quick access of many cars to this drive-in, operated by Star Laundry in Savannah, Ga.

If a site is located, as this one is, at the intersection of two main highways, is it automatically successful? Opinion is divided on this question.

One point of view: heavy, high-speed highway traffic is not necessarily an asset. If a traffic survey shows that the roads are already taxed to capacity during peak hours, then how are they to accommodate added traffic? Traffic jams during peak shopping hours irritate would-be customers, antagonize other motorists who must contend with center traffic, produce friction with local authorities.

Another point of view: location of the drive-in at the intersection of two arterials, rather than on an unbroken strip of highway is important. Drive-ins that are located at important, well-known intersections get traffic from four directions and seem to become fixed in the public mind.

Locations very close to stop lights, school crossings, industrial parking lots may be highly undesirable because traffic jams develop at the height of the busiest hours for the drive-in.

The logical follow-through on the questions raised here is to check the rated hourly capacity of the highway against the peak hourly traffic. Unused capacity at peak hours is an indication that the drive-in will not create a log jam. A highway already crowded to capacity may mean that the addition of a drive-in would create intolerable traffic conditions which might hurt its business.

The drive-in location problem is more complex than the downtown store location problem in the sense that the trading pattern on Main Street is relatively easy to determine. The downtown section is a going concern. Traffic counts, evaluation of business being done by stores of all types, analyses of where the customers come from, what they buy, when they buy and where they buy are relatively easy to make—and they have real meaning to a laundryowner who is contemplating going into an established business section.

Because the location is the key to the success of a drive-in, the laundryowner must look long and thoughtfully at the traffic problem and the reams of other trading-area information which real estate men, developers and local economic consultants show him. Then he must go out and try to verify every significant factor all over again.

'the numbered-bin system takes up one-third less space . . .'

amount of shelving or bins required. Obviously, almost twice as much storage space would be required for six-day service as for three-day. Too, those who use the numbered-bin system claim that it takes up one-third less space than is needed for alphabetical storage where a given amount of space is allocated to each letter of the alphabet and thus there may be idle spaces.

In the numbered-bin system, there is a numbered canvas flag for each bin. When a bin is empty, its flag is kept in the general office. When a bundle's ticket is sent to the office for pricing, the clerk picks up one of the flags from a stack alongside her desk, writes its number on all sections of the laundry ticket (the flat, the wearing apparel, and the shirts) and lays the flag to one side. When the pricing of a lot has been finished, the flag for each bundle in the lot is sent to the package room and placed in the correspondingly-numbered empty bin. A flag in an empty bin indicates that the bundle which will occupy that bin is in process in the plant. Packaged work from the plant goes into the bin whose number is shown on the ticket, and a notation is made (on the customer's visible-index card) of the bin in which the bundle has been placed. The flag is placed on top of the bundle. When the customer calls for the bundle, the attendant learns from the visible-index card where the bundle is stored, takes it out of the bin and drops the flag into a box to be carried back to the general office to be used over again.

The operator who does the pricing knows from the ticket how big the bundle is. If it is 20 pounds or less, she gives it one bin; if it is more than 20 pounds, she assigns two bins to it.

Proper size of bins has been determined through experience to be 12 inches wide, 18 inches high and 24 inches deep. It is customary to have the bins four to a tier, with the top shelf used as a fifth space for the smaller bachelor and list price bundles.

On the basis of the numbered-bin system, then, it is recommended that one bin be provided for each \$2 worth of laundry business per week. Thus a plant with a laundry volume of \$2,500 per week will need 1,250 bins. Assuming five bins (including the top shelf) to the tier, there will be 250 tiers, each occupying two square feet of floor space. Hence, 500 square feet will be needed for the bins, plus aisle space.

The alphabetical system

If the alphabetical system is to be used, 750 square feet (plus aisle space) will be needed.

For drycleaning, the formula is \$10 worth of drycleaning per running foot of rack space. Therefore the plant with a drycleaning volume of \$1,000 per week will need 100 feet.

It may be estimated, then, that the plant with \$2,000 worth of laundry and \$1,000 of drycleaning per week will need, if it uses the numbered-bin system,



And because the customer is a human being, she can turn any drive-in location survey into a meaningless mass of statistics just by refusing to behave the way the survey said she would.

Like sophisticated shopping-center developers, laundryowners who are veterans at the drive-in

game sadly concede that there is no sure way to determine in advance how good a site will be. But scores of laundryowners who have carefully weighed all the factors and made sound decisions on the basis of their investigations will tell you that it has "kept them in business."

some 1,400 square feet of floor area for its package room. With the alphabetical system, allow at least 2,000 square feet.

How much canopy, if any?

It is generally felt that some canopy should be provided in the drive-in's construction. It provides protection in rain and snow for the packages being delivered; the covering is also welcomed in bad weather by those customers who find it necessary to leave their cars to enter the building.

It is not, however, either necessary or advisable for the canopy to extend over the greater part of the parking area. To do so would be to shut out light and create a gloomy atmosphere. It would hide activity, and repel rather than attract customers.

What services, how fast?

Finished family work always is by far in greatest demand at drive-in laundries. Second in popularity is bachelor work; rough dry is third, thrifty is fourth, damp wash fifth.

Drycleaning is not only "a natural"—it is almost mandatory. It gives the drive-in laundry an opportunity to increase its sales per customer by at least 50 percent.

A Monday-Wednesday, Tuesday-Thursday, etc., service on both laundry and drycleaning is prevalent among the leading drive-ins. Others serve on a Monday-Thursday, Tuesday-Friday basis. Five- and six-day service is rare.

Drive-ins, like delivery plants, frequently are called upon for special service. **In the interest of goodwill they must give it.** In such cases, however, either a special charge may be made before the discount is applied, or the discount may be forfeited.

But whatever the schedule, one rule is vital: **have the bundle ready on time, everytime, without fail!**

What about discounts?

There have been some instances of successful drive-ins where no discount at all was given. But in the main it is felt that the discount attracts business; also, it is due the customer.

No flat rule can be stated for the amount of the discount. It varies according to location, competition and other circumstances. However, 10 to 15 percent are the discounts most commonly used in plants throughout the country. At Falconer's in Minneapolis, for instance, the



"Had a heck of a time getting this location."

customer receives 10 percent discount off the route price on laundry bundles and 15 percent on drycleaning.

What about claim-checks?

Some operators believe that a numbered claim check, given to the customer at the time a bundle is brought to the plant, is necessary in order to avoid errors and fraud. That may be true in large cities where it is impossible for the attendants or management to know every customer. But claim checks have a draw-back: people forget them, lose them, ignore them.

The best and most practical procedure is to secure the customer's name and address when the bundle is brought in, and then ask for that information again when the customer calls to pick up the work.

One large drive-in writes the customer's automobile license number on the receipt after payment for a bundle has been made and the car starts to drive off. That simple trick has cleared up some mistakes that might have proved expensive as well as embarrassing.

What about drive-in stores?

Many existing laundries wish to go into drive-in service, but their plants are not advantageously located. Understandably, drive-in stores appear to be their next-best bet. Frequently they are. But there has never yet been an instance of a store equalling the pulling power of a drive-in at the plant.

Except in unusual locations, a store rarely has as much volume as a good route, yet costs more to operate even without the discount.

Under average conditions, if the laundryowner has the necessary capital, he might be better advised to build a new plant in a proper location and move his business to that point. Or, if a drive-in looks sufficiently promising, the owner might want to set up a second plant in competition with his present one and have it operate on a drive-in basis exclusively.

Do routes and drive-in mix?

There are sometimes local conditions which prevent the operator of a route-delivery plant from adding a drive-in. Even without such deterrents, the plantowner often finds resentment if not resistance on the part of his routemen.

All across the country, however, are plants which have combined the two types of service without friction and to the distinct advantage of both.



"Where should we locate a quick-service plant? Speak up, man . . . the most I can do is fire you."

One of the best examples of how well the two methods of distribution augment each other is found in Louisville, Ky., where the Llewellyn Laundry operates the dual system. Their best route is that which serves the territory that logically provides the greatest patronage of the drive-in, because residents of that area must pass the plant on their way to the business section. It is owner E. A. Mall's contention that the drive-in activity attracts the attention of those people, arouses their interest in the laundry itself, and causes them to telephone for route service. The drive-in, in short, is an advertisement for the business and the routes reap benefits accordingly.

When some of the executives at Corby's Enterprise Laundry in Summit, N. J., opened a small plant with a drive-in on the main thoroughfare of nearby Union, they discovered that the business of the new operation was not being gained at the expense of the Corby route in that town.

The experience of Falconer's Laundry in Minneapolis, Minn., emphasizes another advantage of drive-ins which will appeal especially to those laundryowners whose route salesmen work only five days a week. The firm offers laundry and drycleaning from seven routes and a drive-in at the plant. The latter was opened in July, 1951. Since then total sales from routes and drive-in have increased by 50 percent, with allowance made for increased prices.

Today the cash-and-carry business at the drive-in represents 40 percent of total sales, the other 60 percent coming off the routes. This indicates that the overall gain has been achieved at the sacrifice of 10 percent of their route business. However, due to their contract with the local union, their route salesmen only work five days a week. The drive-in is open six days a week and it has more than offset any loss in volume on the routes.

It is recommended that a laundry keep a record of its drive-in customers—a sales-control system which will show what people use the drive-in, when they use it and what service they buy. Then, when a routeman complains to management that he has lost a customer to the drive-in, he can be shown how many customers the drive-in has created and passed along to him. This is standard practice at the Llewellyn Laundry and has proved most effective.

How big should the drive-in be?

The size of any business, of course, will be controlled to considerable degree by the size of the market. But it has been the experience of laundrymen going into drive-ins that they don't think *big* enough; nor do they look far enough into the future.

The Moderncraft Laundry of Hollywood, reportedly the country's first drive-in, did a business of \$485 its first week, \$1,500 the third, \$2,500 the twelfth—and passed the \$5,000 mark in its forty-second week. Llewellyn's second plant in St. Matthews, Ky., (Louisville suburb), operating on drive-in volume exclusively, was built in 1941 to do an eventual volume of \$1,000 weekly. In six weeks time, starting from scratch, they had \$1,200 worth of business and had to enlarge the plant. They have since made two more additions and added two wings.

The laundryowner, in planning his drive-in, regardless of the initial size of the plant, should not start construction until he has a master plan that will provide for future expansion. This will enable him to start small, if he wishes, while assuring lowest cost of later additions.

Making It Easy For The Customer



NOTCHES GUIDE CARS into place at Garland's in Orlando, Fla. They keep two cars from filling the space for five. The costs of such notches (or islands and posts, curbing and stepping stones) is well justified by better control of traffic obtained in the parking space.

Curbing should be so provided that customers can park only in the manner desired. For instance, car doors must have room to open fully. Nothing is more irritating than trying to back out of a 12-inch door opening with a full laundry bag or an armful of clothes.

This is particularly annoying if the rain trickles down your neck in the process. Canopies that extend out at least far enough to cover the driver's door of each car (as Garland's do) will pay for themselves in business sustained through stormy weather.

Also, the parking space ought to be reasonably level and easy to drive into from the street.

All of these features are incorporated in the modern drive-in to make it *easy* for the customer to use the service. People will drive blocks out of their way to patronize a drive-in laundry when they won't walk yards out of their way to use a walk-in store. Moreover, if they have to carry their laundry any distance they tend to bring smaller bundles.

Likewise, people who are too lazy or too proud to lug a laundry bag to a walk-in, and who are home so seldom the route salesman can't catch them, suddenly become steadier, more frequent customers when they find a drive-in available.

Many laundryowners have evidence of this when they convert a plant or store to a drive-in, or when they establish a drive-in close to where they have already had a store. Without any other changes in quality, service or promotion, the volume generally increases from 50 to 150 percent.

Obviously, this isn't all gravy, because at least twice and usually three times as much land is involved, with attendant increased overhead. On the other hand, a drive-in doesn't have to be in the same location as a walk-in store. By moving out of the shopping centers a laundryowner can often get all the property he needs for little more or less than he would have to pay for a store in a shopping center.

Equipping The New Operation



IT'S NOT ALWAYS WISE to compare one kind of business with another. Because no two industries are exactly alike, the conclusions drawn from such comparisons are frequently more misleading than helpful.

But, whenever we think long and seriously about the transition the laundry industry has passed through since World War II (and it's still going on), we can't help comparing it with the change which came over the dry-cleaning industry after the synthetic cleaning unit came into widespread use.

Introduction of that unit led to a gradual de-centralization of the industry, so to speak. With the revision of many city zoning regulations to accommodate the new equipment, drycleaning plants and plant-stores blossomed out in the most desirable and strategic locations from a merchandising point of view. The industry experienced, and continues to enjoy, a period of great growth and prosperity.

So it is with the laundry business today. Small, compact pieces of productive equipment have been designed and introduced. All of them are not new; some were in use on a limited scale before the war. But accelerated activity on the part of manufacturers has been in the direction of high-quality washwheels, presses, ironers, extractors and tumblers of small capacity and compact design. Newly designed boilers, water heaters and softeners have been introduced to complement this equipment. The increased availability of natural gas as an economical source of fuel in many communities has grown hand-in-hand with this development.

As a result, the laundryowner of today has at his disposal a whole new array of equipment which greatly increases his flexibility. He can equip a store or drive-in with productive facilities without making the huge investment in heavy equipment which the average pre-war plant required. He can start out at a new location on a modest, limited scale and gradually expand his capacity (add new washwheels, extractors, etc.) as the growth of the community requires. The type and number of services he can offer is unlimited and the quality of his work need not be sacrificed. Furthermore, if his analysis of the changing market proves wrong, he can "pull up stakes" and move to another location at a fraction of what it would cost to re-locate one of the older type of plants.

Most important of all, it is no longer necessary for the laundryowner to "hide his light under a bushel." He can place his plant before the public view and reap all the benefits that accrue. In fact, the greater the public, the better. (Remember the reaction when the Coca Cola people began to build modern buildings with the entire bottling line in full view behind a big glass front? "Pure as sunlight," they said, as they demonstrated that they had nothing to hide from the consumer.)

Consumers are fascinated by the "inner workings" of an industry. And if that industry is engaged in processing something which they will ultimately buy, handle and use, their interest is trebled. (How many times have you heard your wife say she was impressed with the cleanliness of a restaurant's kitchen, not because she had visited it but because the management let her know she could inspect it if she wanted to?) A housewife's interest in anything couldn't be greater than in the way her own possessions (i.e., her laundry) are handled.

Laundryowners are great "tinkerers" and they probably shall be as long as the industry lives. This is a good thing. Any industry is on the way to oblivion just as soon as its leaders become satisfied that no further progress can be made.

All the leading machinery manufacturers today include as part of their service, more or less complete "package plans" for laying out and equipping small, quick-service laundry plants. These plans can be easily adapted to any laundryowner's future plans for a drive-in or store with production facilities on the premises. Because laundryowners are the kind of people they are, the degree to which they accept these pre-engineered plans in toto varies considerably. But we can think of no better way to start investigating the idea than to call in a machinery manufacturer's representative and discuss, in outline, what you're thinking about. His assistance will be invaluable.

On the following pages we have outlined the success many operators in many sections of the country have had in laying out their equipment to meet the needs of the new market. From these outlines the laundryowner who is looking into the future can get some ideas which will help him while he is in the "dream" stage. The next logical step will include consultation with his machinery representative and the American Institute of Laundering. Adequate financing should be the next step. Only

'it is often possible to bypass damp assembly . . .'

after thorough checking and re-checking of all factors which these investigations reveal should contracts be let for actual construction.

Not all of the following examples involve brand new plants. Some are purposely included to demonstrate what can be accomplished by way of renovating and streamlining old plants to effect economies of operation and, primarily, to gear them to the present-day need for the kind of laundry service the modern housewife demands.

Let's start in Missouri with Rapid Service Laundry & Dry Cleaning Co. in St. Louis, which started from scratch in November 1950 and built a volume of \$1,200 per week in less than two years. Located in the suburban town of Maplewood, on the edge of St. Louis proper, the all-new plant is just off what is known locally as the busiest intersection in the county.

The plant is housed in a T-shaped building set well back from the street to provide ample space for the hard surfaced drive-in facilities. The small end of this T, facing the drive, is a brick structure, 22 x 44 feet, used as the call office and bundle storage space. Attached to the brick call office is the larger 40 x 85-foot concrete block building for the laundry and cleaning plant.

Fast service

The difference between this plant and a big laundry is the speed with which each laundry order can be handled, and the personal attention that is assured each customer. **Normal processing for any laundry bundle is three hours.** In emergencies, bundles have been back to the office in just two hours and 17 minutes from the time they were handed to the counter girl.

One of the most attractive features of this small plant operation, according to Ray Emerson, the owner, is the fact it is so often possible to completely bypass damp assembly where nets normally require considerable time in being assembled in proper order. Here, with far fewer bundles, work can be expedited to the finishers straight from the extractor without disrupting the routine.

Productive equipment includes three open-end wash-wheels (one each of 25, 50 and 100 pounds capacity); a gas-heated return-type flatwork ironer; a four-girl shirt finishing unit and a wearing apparel unit.

Here's what happens to a bundle of shirts from the time it is left at the counter. A duplicate ticket is made out by the counter girl (a wet-strength ticket, folded, with carbon between). The top ticket is the permanent office copy with the claim stub at the bottom. The duplicate ticket has four numbered stubs at the bottom. The counter girl makes out the ticket with name, address, type of starch, and time of delivery requested; and places the bundle in a clean cloth bag. The customer gets the claim stub. The remaining parts of the ticket are all safely pinned to the bag which is placed in a cart for processing. (Specials go directly to the washroom and bypass all other waiting bundles.)

The bundle-break girl takes the cart of bundles and immediately records the weight of each bundle before taking it to her break-table. At the break-table she nets and classifies for washing, writes the number of shirts on the ticket and the name on each stub. When using only one net for the shirts, the two bottom stubs are folded, placed inside a little 4 x 4-inch nylon cloth pocket, and put into the net with the shirts. If two nets are used for one order, one stub goes into each net. No numbered pins are used on shirt nets. A plain pin is used to close the net, with a green rubber-ring marker to indicate that the net contains shirts. (When two nets are being used on one order, two green rings are fastened to each net.) Special bundles are all designated by a black rubber ring in addition to all other rings.

Shirts getting regular starch are all washed in white nylon nets, while shirts requiring special starch are in red nylon nets. After washing, all red nets are pulled and the rest are starched in the wheel.

After starching, the shirts bypass damp assembly and go directly to a table where the nets are opened, one at a time, and the stubs removed from the little nylon cloth pocket and checked with the name, ticket number, and shirt count on the duplicate ticket. Stubs are then stapled to the duplicate ticket, before marking the shirts. Each lot contains 15 bundles, with lots designated by alphabet: A1, A2, etc., through Z, then by double letters—AA1, AA15 . . . ZZ1, ZZ2, ZZ3, etc. (These are entered on the ticket by the bundle-break girl who then sends the permanent office copy to the office for pricing.)

Shirts are triple-checked

Shirts are marked with a No. 2 pencil under the collar where it won't show. (The marker at this point has made the first check on the shirt count. Three checks are made before the shirts get back to the customer.) From here the marker acts as expediter and takes the shirts to the shirt unit for finishing.

Shirts are finished and the folder sorts them into portable bins and gives them the second check against the number shown on the ticket accompanying the shirts to the unit.

Shirts are wrapped out after a third check of the count, and the bundle boy takes them to the front office. Each bundle has all parts of the ticket on it, except for the permanent office copy which preceded it for pricing. The bundle boy matches the bundle with the permanent copy which has been kept in the "not ready" file in the office and carries it with the bundle until he finds space on the storage shelves for the bundle. The bins are not spaced alphabetically, but each vertical row of bins is



Yes, I did advertise for someone to revamp my plant . . .

listed by number, and each shelf by letter. The bundle boy notes the bin location at the top of the permanent office copy, and puts it in the "ready" file.

After the bundle is picked up, the counter girl pins the claim stub to the permanent copy and marks the date of delivery and amount on a sales sheet. This sales sheet was filled out with the customer's name when the ticket was brought to the office for pricing, and shows name, date brought in, and lot number. In case a customer later claims she hasn't picked up her laundry or forgot her ticket, it is only necessary to trot out the complete ticket along with the claim check.

In the handling of flatwork the nets are pinned shut with a plain pin, but no rubber-ring markers are used. Flatwork comes out of the extractor and goes direct to the ironer, identified with its properly numbered stub in the little nylon pocket inside the net.

Of the 14 people in this plant there are only four who do only one job. They are the shirt crew. Everyone else in the plant can and does do anything needed to speed

the flow of work. Not one of the girls had ever had any previous laundry experience, as Mr. Emerson finds that untrained girls follow instructions better.

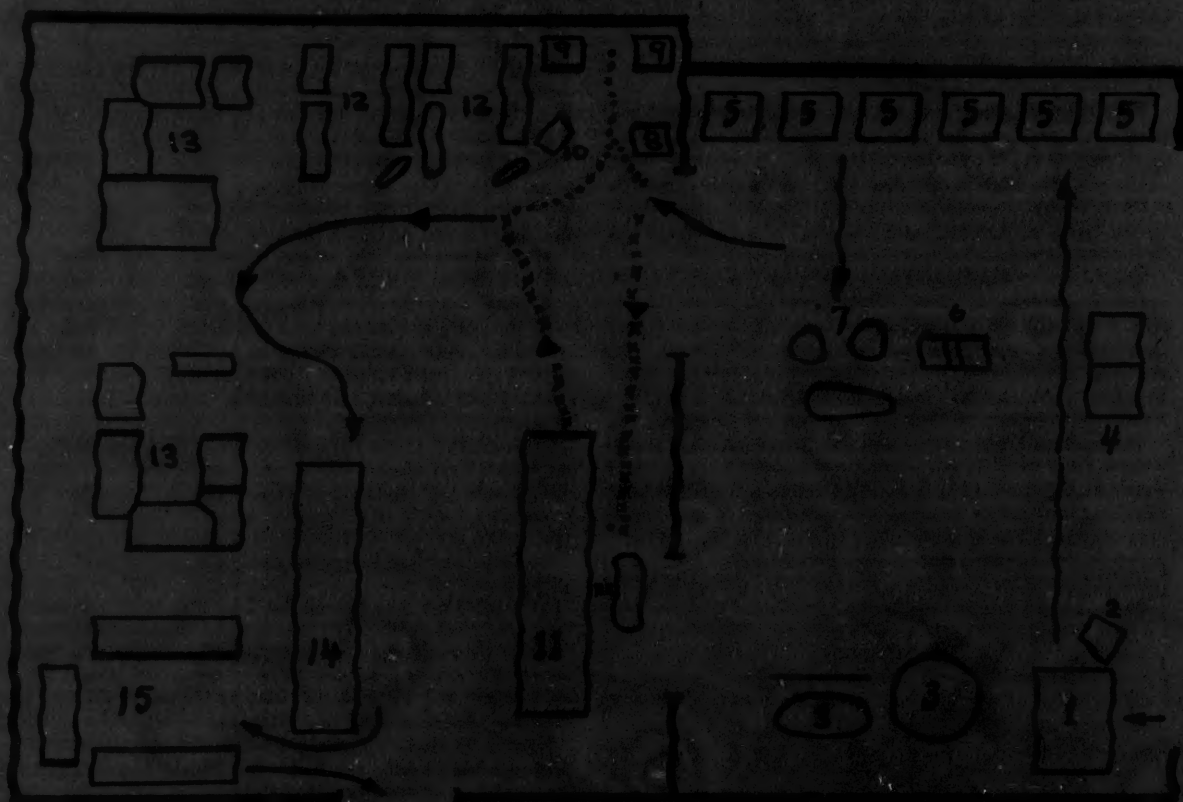
The week we were with Mr. Emerson, his sales included \$550 in shirts, \$300 in family laundry work and \$260 in drycleaning. Total payroll amounted to 44.53 percent of sales, including both his son's and his salaries. Not bad for an operation which only occupies 3,400 square feet of productive floor space.

Now let's take a look at William George's operation at Jay Laundry in Plainfield, N. J.

Mr. George did not build a new plant. He did, however, completely revamp his old one. Previously, cylinder-type washwheels and the lot system with standard pin and net identification had been in use. Volume was decreasing and costs were rising steadily.

The picture is just opposite today. Credit for a 10 percent volume increase, according to Mr. George, must be given to a change in washing technique and its effect on sales. He is satisfied enough with the setup so that

Layout and Workflow at Jay Laundry



Arrows indicate the flow of work through the Jay Laundry's plant in Plainfield, N. J. (Try to guess at equipment and floor work to given below.) The starching department is located in the rear of the left end occupies approximately 1,000 square feet of floor space. The washers (at right in sketch) occupies approximately 250 square feet of floor space. Present equipment in the latter room consists of six 25-pound open-end washwheels and two 10-inch extractors. Converting to the traditionally washed bundle technique, says Mr. George, the outfit has worked so well for them that the management now plans to double their washers capacity, about for \$2,000 laundry sales per week.

1. washing table
2. scale
3. water softener
4. rins
5. washers

6. starch table
7. starcher
8. acid washers
9. hot washers
10. handfinished press

11. starch heater
12. washing spread table
13. starch table
14. starching table
15. starch change

16. starching table
17. starching table
18. starching table
19. starching table
20. starching table

One man washes, extracts, starches and does damp assembly . . .

he now plans to double the capacity of his washroom (see sketch). When that is completed, he will shoot for an average of \$2,000 weekly laundry sales.

Bundles are weighed and broken at an identification table where each is assigned a numbered canvas flag with corresponding pins. (These flags are known as group identifying tags in some plants.) If the bundle is close to 20 pounds and contains no fugitives, it is dumped into a cart, flag on top, and sent to the washroom.

Should a bundle contain fugitives, one of the pins is removed from the flag to identify a net into which the fugitives are placed. In like manner the pins can be used if a smaller bundle is broken to complete a washer load. This means that three bundles can be washed in two machines. The two largest will be washed in bulk, while there will be a netload of half of the third bundle in each washer. Identifying flags are hung on the washer during washing.

A two-speed washwheel used

Six 25-pound open-end washwheels with semi-automatic controls do the washing. Five are regular speed wheels, while the sixth is a two-speed machine in which fugitives are handled. The standard washing formula, from which 97 percent whiteness retention and a three percent tensile strength loss has been reported by the A.I.L., calls for a seven-minute break, seven-minute suds, eight-minute bleach, one two-minute and two one-minute rinses followed by a four-minute blue and sour. Adding seven minutes for loading and unloading, the washing cycle is 37 minutes.

Two 20-inch extractors process all work from the six washers. One man washes, extracts, starches and does the damp assembly on any bundles that must be broken.

The bundle, right from the extractor or after any necessary assembly, now moves to the tumbling section. All work is first preconditioned by a run in a cold tumbler, and then broken for finishing.

Flatwork is placed in a canvas basket, numbered flag on top, and moves to a two-girl return flatwork ironer. Here each bundle is ironed and folded before the next bundle is passed through the ironer.

Fluff-dry work stays in the tumbler section, and after being dried and folded, is placed in a movable wooden cart. Any flatwork is also placed in this cart before it is rolled to the wrapping table.

Wearing apparel and shirts to be finished are placed in one of the carts after the cold tumbler run. Clipped to the side of this carrier is the invoice which has come down from the office, after pricing. It contains the flag number so that flatwork can be matched with the rest of the bundle.

The cart is rolled to one of two wearing apparel units, flatwork being placed inside on the way. Wearing apparel is removed from the cart, finished, and replaced. The bundle is now complete except for the shirts, so the cart moves to one of two shirt units. Shirts are removed, finished and replaced before the next cart load is touched.

The cart, now containing a completely finished bundle, is then rolled to a wrapping table where flatwork is packaged and shirts and wearing apparel are boxed.

Present productive employees number 10, a drop of three from the system used before the switch to unit control. All of these are paid a base rate of 95 cents per hour and a guaranteed weekly wage. All are on incen-

tives, the base of which is this same guaranteed weekly minimum.

As far as the production possibilities of unit washing are concerned, Mr. George feels that present equipment is only a step in the right direction. He expects further advancement and refinement to cut costs and increase quality. When that happens, he fully expects to turn in his present individual washing system for an even better one. He thinks that individual washing can work just as well for the big plant doing many times his volume.

Advantages of Relocating

Among the many advantages which laundryowners claim as a result of their relocating-expanding, these are the most important:

1. More total volume. And volume is the secret to future success of the business.
2. More efficient operation because of a non-crowded store and a more modern plant. The opportunity to use the most modern equipment and lay it out according to a simplified flow of work contribute greatly to this increased efficiency.
3. A more pleasant place in which to work—for both the boss and the help. Easier to get and keep employees.
4. It is frequently possible, in moving into a new area, to tap a new, less competitive labor market.
5. An assured future because a modern, properly located store and plant keeps out that very competition which is poison to the poorly located laundry.

One of the newest quick-service drive-in plants to open is the Economy Drive-In Laundry and Cleaners in Bettendorf, Ia. It is the first cash-and-carry drive-in plant to offer complete laundry and drycleaning services in the Davenport area (Bettendorf is a residential suburb of some 8,000 population just outside the Davenport city limits).

This \$100,000 installation is owned jointly by Chris Mueller and his son, August (owners of Model Laundry in Davenport); D. D. Poffinberger, Model's drycleaning superintendent; and John Maxwell, Model's laundry superintendent—all equal partners. The latter is the working manager of the new plant. The experience these gentlemen have had in getting this venture "off the ground" serves as a pertinent reminder to newcomers of certain pitfalls to avoid. It is also an up-to-date guide as to how to appraise progress toward the break-even point in light of today's economic conditions.

The all-brick-and-tile building is of irregular shape—wider at the front (52 feet) than at the rear (40 feet). It runs 75 feet into the lot. Total floor space is approximately 3,300 square feet.

In addition to its own big gravel-topped parking area

'the manager and seven employees operate the plant . . .'

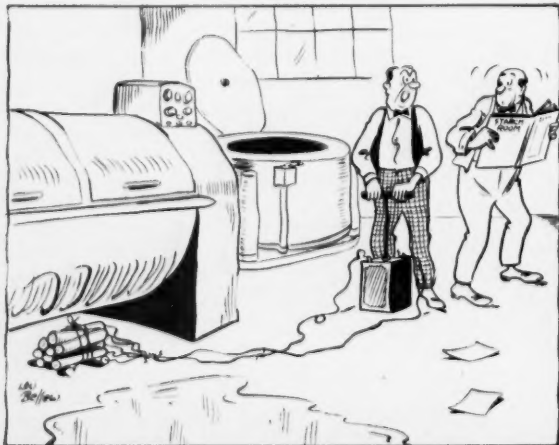
at the front of the plant, the parking lot of a large supermarket is practically across the alley from it. The modern flat-roofed building sports decorative wooden columns at each corner which appear to support the large overhanging eaves, along with eye-catching brick columns. The new-type ventilated roof assures a comfortable plant, as do the awning-type windows on three sides.

The manager and seven employees, along with one part-time employee, operate the plant. The two-girl shirt unit is operated only half days, with one of the girls spending the rest of the day finishing wearing apparel, while the other girl takes care of washing in the four 25-pound and one 50-pound open-end washers with semi-automatic controls. One girl checks laundry work in and out and operates the tumblers.

In the drycleaning department there is one wool finisher and one silk finisher, one all-around girl, and one girl who inspects, checks out cleaning and handles the counter. The manager does the spotting and drycleaning. One part-time girl works half days, for the most part, handling the counter until the 6:30 p.m. closing time. The office is open six days a week from 6:30 a.m. to 6:30 p.m., and until 9:30 p.m. on Fridays to tie in with the nearby supermarket's hours.

One-day service advertised

Advertising is based on the fast, economical service—one-day service in an area accustomed to three days. There is no extra charge for this one-day service on either laundry or drycleaning. The plant at present has no flatwork ironer so this work is done at the Model plant, which necessitates two-day service on full family finish. Any type of bundle, except those containing sheets, is assured of one-day service on request. Although geared for one-day service, both in cleaning and laundry, the customers have slacked off in their demands for such fast service after the first few weeks. Seemingly satisfied that as long as one-day service is actually available, they have more or less settled on requesting two days as "soon enough." This has, of course, made it much easier to juggle the work flow to best advantage with a minimum of employees.



"O.K., let's decentralize!"

One particularly popular type of service is a bag-of-wash deal consisting of all the customer can get into an 18 by 36 feed sack, washed, dried and replaced in the bag without folding for \$1.39. These feed sacks, with the firm's name stenciled on them, are sold to the customer for 25¢ each to discourage the customer from splitting them with too great a load. The bundle average is 22 pounds, with only two customers, so far, insisting on cramming 32 to 37 pounds. (This would have been discouraged had they thought to stipulate the bag must be closed with a pin or string at the top.)

An increasingly popular service

This increasingly popular service, advertised for an actual two-hour service, is being pushed to fill in the Saturday operation of the plant during the time when the housewife does her shopping at the supermarket and other nearby stores. This has been a particularly good source of additional revenue at a time when the manager is alone at the plant on Saturdays. The semi-automatic washers allow him to handle these bundles without much effort.

The call office and drycleaning finishing room occupy one end of the building on the side street, while an equal area at the other end of the building houses the boiler room and a small office for a rented-out cream testing station which opens on the driveway.

This office will house the gas-heated flatwork ironer which the management hopes to install in October. Present flatwork volume is averaging only 300 to 400 pounds weekly. However, the plant should hit 1,000 pounds a week in the fall—at which time the new ironer will be installed.

The washing machines all face the parking area at the front of the plant, and are visible at all times to the customers as they drive up, thanks to a nearly all-glass front of the awning-type windows which open straight out to provide an uninterrupted view of the washroom. This is particularly effective since all the employees wear white uniforms.

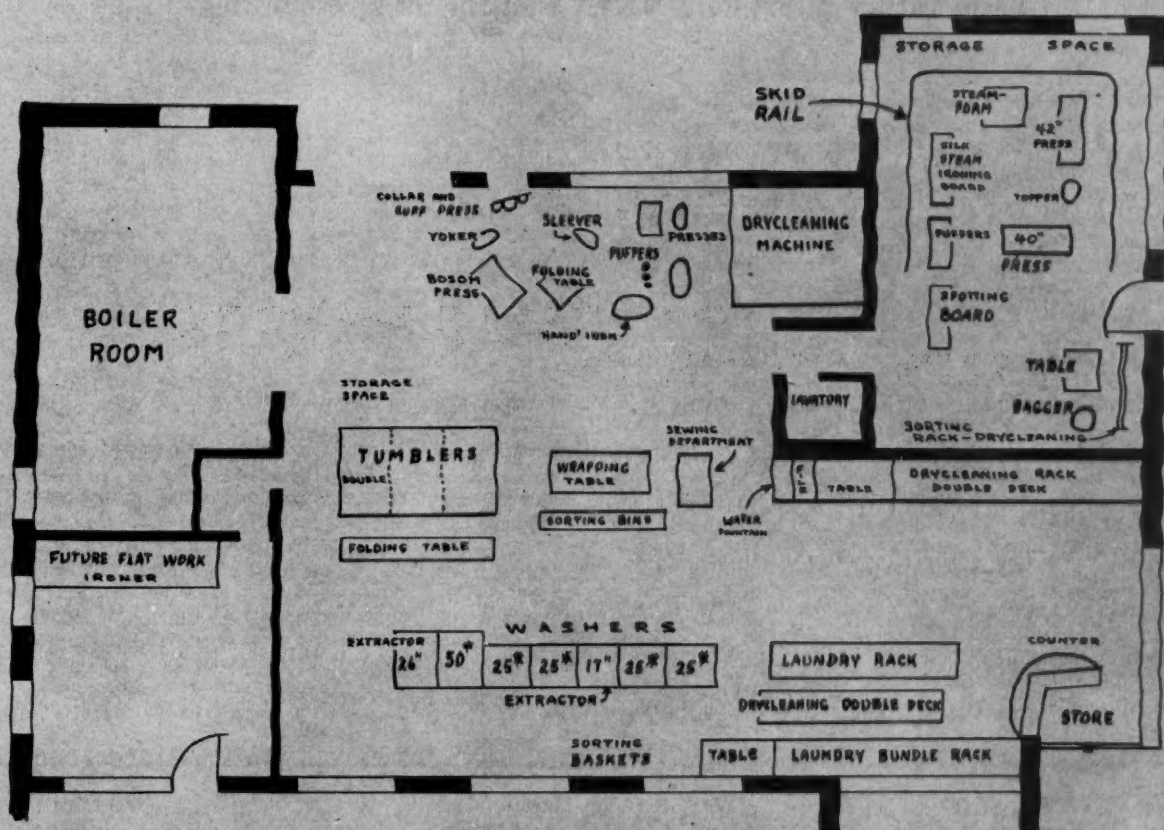
Check in and check out of laundry bundles is done at the office end of this row of washers. Behind the washers, in the center of the room, are the shirt sorting bins, repair department and tumblers. Along the back wall is the shirt unit and wearing apparel presses, as well as the synthetic cleaning unit in the corner nearest to the drycleaning finishing room.

Glazed brick construction

Interior walls are of glazed tile, eliminating the need for costly redecoration. Outside walls are glazed brick and glazed tile.

Now that the business is in operation, there can be seen a number of things that might have been avoided had the owners been forewarned. For instance, the original plans called for heating the plant with gas-fired space-heaters, but the utilities company denied the request. This necessitated the installation of a separate oil-fired boiler, with all the necessary underground storage tanks, piping, etc., at an added expense of nearly \$4,000. Two months after the plant was in operation the utilities company granted the original request for gas for the same purpose!

It is the opinion of the owners that an adequate building might have been put up for considerably less money.



Economy Drive-In's entire plant occupies little more than 3,300 square feet of floor space. Present washroom equipment includes a 50-pound and four 25-pound open-end washers with two adjacent extractors. However, the management plans to install a like number of washers and extractors in a line parallel to, and behind, the present equipment. New flatwork ironer will occupy room (in lower left of sketch) now rented to other occupants. The compact boiler room houses a 35 hp. gas-fired boiler, gas-fired instantaneous water heater, small air compressor and a water softener of 55,000-gallons-per-hour capacity.

They based their early thinking on the old rule-of-thumb that a profitable yearly laundry volume should equal in dollars the initial cost of building and equipment. On this theory, they would have to wait for a sales volume of \$100,000 per year before breaking even. Fortunately, however, they will not have to wait that long.

John Maxwell figures that when they hit \$1,200 weekly volume they will be at the break-even point. Right now they are doing \$800 per week with laundry and drycleaning each contributing about half of this figure. This reflects the result of six months operations. Present indications are that they will be breaking even in October; eight months after opening.

In the meantime, the public's response to the services offered has exceeded expectations. One thing, however, is at once apparent. Laundry volume has been harder to attract than drycleaning volume. For several weeks the former was less than expected while the latter was greater than anticipated. Even though total volume for both services is running ahead of their expectations, it took several weeks to get the laundry sales to run even with drycleaning.

The "feeder" plant

Economy Drive-In's plans for installing an ironer when their volume of flatwork increases brings up the subject of the "feeder" plant. (Note that, meanwhile, they are accepting flatwork at the new drive-in but are shipping it to the Model Laundry plant for finishing.)

Strictly speaking, a feeder plant is a production facility located in a store or drive-in which is owned by a "parent" plant. The feeder plant is not equipped to do all of the finishing operations. It may consist solely of a washroom in which damp wash bundles are processed. Or it may include tumblers as well; in which case an all-dry bundle is processed.

(Continued on the following page)

'The feeder plant idea works well for many laundries'

(Continued from the preceding page)

More than likely, the feeder plant will include a shirt finishing unit; in which case finished shirts are offered on a quick-service basis. This is the most popular type of feeder plant operation.

But the feeder plant *accepts* all types of work at its store; indeed, it actively merchandises them. Then it sends, or "feeds," to the parent plant that work which it cannot finish on the premises. That is precisely what Economy Drive-In is doing now with its flatwork.

The feeder plant idea works well for many laundries. It is especially appealing to those plants whose flatwork ironers are not operating at full capacity today. The only thing to guard against in setting up such a plan is the speed of service. You must be sure that those items which you propose to feed back to your parent plant are not those, in your particular community, which the customers want returned in a hurry. Otherwise, you may be asking for trouble.

Washette, Inc., in Cincinnati, O., operates on the feeder plant idea very successfully. Evolving gradually from a single self-service store, offering only wetwash, the firm grew to a chain of four such stores in just over five years. All of the stores now offer complete family laundry service; but only one of them performs any finishing operations at all.

The other three stores wash and extract shirts, flat-

work and wearing apparel accepted from their customers; net them and send them by truck to the fourth plant for finishing. Each net contains a single customer's work and is identified by a pin. In addition to the conventional bundle-identifying numbers, each pin has a larger number identifying the store from which it came. After finishing, the folded work is wrapped and returned to the store where it is matched up with the rough dry portion of the bundle. This is offered as a 24-hour service.

Floor space can vary

The above examples have been cited to give the actual experiences of three operators who have either built new plants or drastically revamped old ones in order to render the type of service the housewife wants, at the price she wants to pay, *when and where* she wants it. Several other examples could be cited; many more than space will permit.

Few generalizations can be made safely. From these examples it can be seen that total productive floor space can vary widely. One plant with 1,350 square feet of capacity is doing approximately the same volume as one with three times that floor space. However, when optimum volume is achieved in the newer operation, it will become apparent what the maximum amount of laundry



processing, on an eight-hour shift, with full utilization of equipment by trained crews should be.

But one thing seems certainly true. The present-day trend toward small, compact units assures full utilization of employees' time. Note, in every case cited, that a minimum number of people are employed. And the ease with which those people can be trained to fit in on every job in the plant keeps productive labor costs at a minimum. In most cases these plants are operating at a cost of productive labor in ratio to sales which is much lower than the American Institute of Laundering cost surveys show for their average member plant.

Then, too, with the smaller washing units, the cost of washroom supplies (including fuel for heating water) is kept in direct ratio to the amount of work processed. Because each wheel is of much smaller capacity than the large cylinder type wheels formerly in general use, it is possible to load them on a per bundle basis. This, in turn, permits the laundryowner to spread his actual productive costs over the bundle selling price on a unit basis. He knows where his costs are and what to do about them when they get out of line.

Simplicity is the rule

This individual bundle treatment, of course, is what enables the laundryowner to avoid costly and labor-consuming identification and lot control systems. Simplicity can be the rule instead of confusion; claims kept to a minimum.

It is this feature, too, which permits the laundryowner to give those customers who require it fast service.

In most of these plants a bundle of fully-finished family work can be taken in at the counter, processed through the plant and returned to the counter in approximately two hours when necessary. In some others this can be cut in half. Not all customers require such speed except in dire emergencies. But the plant which is able to offer it gains a lot of goodwill and never loses a customer who needs it in a pinch.

A laundry within a laundry

Finally, it is possible in those cases where it is found to be sound policy, to feature an individually washed bundle in the sales and advertising campaigns. Some plants have featured this aspect and derived great benefit. Pantorium Cleaners, Inc., in Dayton O., opened a complete small-unit laundry back in 1950, in conjunction with their conventional plant, just one floor below the latter in the same building. They featured a laundry bundle in which "each customer's washing is done separately." It was advertised as such in their stores and on their routes (see STARCHROOM LAUNDRY JOURNAL, January 1952, page 18).

Combined sales of the two laundries showed a 30 percent increase in 1951 over the preceding year. Of course, the smaller plant, starting from scratch, was bound to show an increase in the first year of operation. However, management points out the significant fact that just about 50 percent of the 1951 increase was attributable to the smaller plant. Volume in both plants has been growing since.

Falconer's "Gives The Lie"

MODERN DESIGN, a strategic location and good customer relations have paid off handsomely for Falconer's Laundry in Minneapolis, Minn.

Furthermore, Falconer's is one of the many plants north of Mason & Dixon's line which has given the lie to those skeptics who said that a drive-in could not be operated successfully anywhere but in the Sunny South, the Southwest or on the Pacific Coast. (Anyone who has ever been in Minneapolis in February knows that it gets cold there!)

The store was built adjoining the plant on a corner location which is almost perfect for housewives who drive into downtown Minneapolis to shop. Because it was not necessary to buy any land, the total cost of the addition was \$40,000.

The services of a local architect was enlisted by owner J. A. Vartdal in drawing up a design which features an all-glass exposure along the two sides which face the street intersection—60 feet on one side, 40 on the other. Effective night illumination comes from individually recessed spotlights which run along the underside of the permanent canopy.

Customers' cars may enter the 150 by 70-foot parking area from either street, in either direction. It takes the average customer two minutes to drive in, transact her business and drive out.

Interior furnishings of the store include four small counters rather than the conventional single counter running along an entire side. Mr. Vartdal explains that this is in keeping with their phil-

osophy of informality and helps lend an air of individual attention to each customer who is attended. Each counter is upholstered in synthetic leather of a different bright color.

Chrome chairs with leather upholstery, smoking stands and a magazine table with a lamp are attractively grouped in the corner formed by the glass front. Neat linoleum flooring and a sound-proof composition ceiling with fluorescent light fixtures add to the overall appeal.

The customer receives 10 percent discount from route prices on laundry and 15 percent discount on drycleaning when she brings them to the store. Regular service is four days—in on Monday, out on Thursday. However, if a customer needs her work in a hurry they offer a one-day special—in before noon out the same day. The customer forfeits her discount when requesting the latter. All sales at the store are cash-and-carry.

The store opened in July 1951 and total sales increased 50 percent the first year. This includes both laundry and drycleaning from their seven routes and the store. They did not increase prices during that time.

The drive-in required the addition of only seven people to the total payroll. These include salesgirls, baggers and the people who handle garment and bundle storage. Total employment at Falconer's is approximately 80 persons in all of the departments.

A. I. L. Bulletins and Reports

SERVICE BULLETINS are published monthly by the American Institute of Laundering, Joliet, Ill. Subscriptions are accepted from members only at the rate of \$12.50 per year.

Titles and order numbers of Service Bulletins are printed in roman type. Special Report titles and order numbers are printed in *italics*.

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PRODUCTION AND MANAGEMENT

Washroom Information

Standard Capacities

Maximum Pounds Dry Per Inch and Per Foot of Length

| Diameter of Wheel | Per Foot | | Per Inch | |
|-------------------|-----------|-----------|-----------|-----------|
| | Metal | Wood | Metal | Wood |
| 30" | 2.00 lbs. | 1.68 lbs. | 24.0 lbs. | 20.0 lbs. |
| 36" | 3.05 | 2.36 | 36.6 | 28.3 |
| 42" | 4.17 | 3.40 | 50.0 | 40.8 |
| 44" | 4.58 | 3.75 | 55.0 | 45.0 |
| 54" | 6.88 | 4.80 | 82.7 | 57.6 |

Source: AIL

Knowing the maximum pounds of dry weight of soiled linens per foot or per inch of length, it is possible to obtain an approximate washer load limit. For instance, a metal wheel 36 inches in diameter will take 3.05 pounds per inch of length: $3.05 \times 54 = 146.7$, maximum load for a 36 x 54 washer.

Wood Washers

In Dry Pounds of Clothes

| Diam. of Wheel | Length of Washer | | | | | | | | | |
|----------------------|------------------|-----|-----|-----|-----|-----|-----|-----|------|------|
| | 30" | 36" | 48" | 54" | 64" | 72" | 84" | 96" | 108" | 120" |
| 30" | 35 | 40 | 55 | 60 | | | | | | |
| 36" | | 70 | 90 | 100 | 120 | 135 | 160 | 185 | | |
| 37" | | 70 | 90 | 100 | 120 | 135 | 160 | 185 | | |
| 40" | | 100 | | 125 | 145 | 160 | 185 | 210 | | |
| 41" | | 100 | | 125 | 145 | 160 | 185 | 210 | | 265 |
| 44" | | | | 160 | 180 | 200 | 225 | 250 | 275 | |
| 48" | | | | | | 250 | 275 | 300 | | 350 |

Source: AIL

Dry Clothes

1. Occupy approximately 0.243 cubic feet per pound.
2. Weigh approximately 4.11 pounds per cubic foot.
3. Displace about 0.0125 cubic feet of water per lb.

Metal Washers

In Dry Pounds of Clothes

| Diameter of Wheel | Pounds Per Cubic Foot | Length of Washer | | | | | | | | | | | | | |
|----------------------|--------------------------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|--|
| | | 36" | 38" | 42" | 44" | 48" | 54" | 64" | 72" | 84" | 96" | 108" | 120" | 126" | |
| 36" | 4.0 | 85 | 89 | 100 | 104 | 113 | 127 | 151 | 170 | 197 | 226 | | | | |
| 38" | 4.0 | 94 | 100 | 110 | 115 | 126 | 141 | 168 | 189 | 221 | 252 | | | | |
| 42" | 4.5 | 130 | 135 | 150 | 158 | 173 | 194 | 231 | 260 | 302 | 346 | 390 | 433 | 453 | |
| 44" | 4.5 | 142 | 150 | 167 | 174 | 192 | 214 | 254 | 285 | 333 | 381 | 428 | 476 | 500 | |
| 48" | 4.5 | 170 | 179 | 198 | 210 | 226 | 254 | 301 | 339 | 395 | 452 | 509 | 565 | 595 | |
| 54" | 5.0 | 238 | 250 | 278 | 291 | 318 | 357 | 424 | 477 | 556 | 636 | 715 | 795 | 833 | |
| 60" | 5.0 | 294 | 310 | 343 | 360 | 392 | 441 | 523 | 589 | 687 | 785 | 883 | 982 | 1032 | |

Source: AIL

Recommended loads for washwheels can be only approximate. The correct size of the load will vary with type of work being handled, the degrees of soil and individual plant conditions. Capacities given are meant to serve as a guide. The recommended loads are based on a sliding scale of from 4 to 5 pounds per

4. Weigh approximately 0.033 pounds per square foot.
5. The correct load for a washer is approximately 5 pounds per cubic foot. For rough purposes, a washer will therefore be correctly loaded when it is about 80 percent full of dry load. (Not packed down hard.)
6. Absorb about 0.3 gallons of water per dry pound.

Wet Clothes

1. Occupy approximately 0.11 cubic feet per pound of dry clothes.
2. Weigh about 3.48 pounds per pound of dry clothes.
3. Weigh approximately 31.8 pounds per cubic foot.
4. Occupy approximately 0.0314 cubic feet per pound.
5. Contain approximately 9.12 pounds of dry clothes per cubic foot.
6. The correct load for a washer is approximately 5 pounds per cubic foot. For rough purposes, a washer will therefore be correctly loaded when it is about 55 percent full of wet load (with the washer drained).

Open-End Washers

Manufacturers' Rated Capacity in Dry Pounds of Clothes

| <i>Diam.</i> of | | Length or Depth of Wheel | | | | | | | | | | | | | |
|--------------------|----|--------------------------|----|----|----|----|----|-----|----|-----|----|----|----|--|--|
| Wheel | 13 | 14 | 15 | 16 | 18 | 20 | 22 | 24 | 25 | 26 | 28 | 32 | 42 | | |
| 20 | .. | .. | .. | .. | .. | 15 | .. | .. | .. | .. | .. | .. | .. | | |
| 22 | .. | .. | .. | .. | .. | .. | .. | .. | 25 | .. | .. | .. | .. | | |
| 27 | .. | .. | 20 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | | |
| 28 | 18 | .. | .. | 25 | .. | .. | .. | .. | .. | .. | .. | .. | .. | | |
| 30 | .. | 25 | 30 | .. | 35 | .. | .. | .. | .. | .. | 50 | 55 | 60 | | |
| 32 | .. | .. | .. | .. | .. | .. | .. | 50 | .. | .. | .. | .. | .. | | |
| 34 | .. | .. | .. | .. | .. | .. | .. | 60 | .. | .. | .. | .. | .. | | |
| 36 | .. | .. | .. | 35 | 50 | .. | 60 | 60 | 75 | .. | .. | .. | .. | | |
| 42 | .. | .. | .. | .. | .. | .. | .. | 100 | .. | 100 | .. | .. | .. | | |

cubic foot. Maximum capacities given here are based on 5 pounds per cubic foot, although some manufacturers suggest that peak loads may run 5 pounds to 6 pounds per cubic foot, the latter, of course, for the largest size washers.

(Continued on following page)

(Continued from preceding page)

Weight of Linen Supply Items Per 100 Pieces

| | Pounds | | Pounds | | Pounds |
|--------------------------------|---------|-------------------------------|--------|-----------------------------|--------|
| Aprons | 50 | Mats, Bath, 20 1/2 x 29" | 75 | Spreads, 54 x 90" | 260 |
| Aprons, Bib | 48 | 26 x 50" | 200 | 90 x 100" | 394 |
| Butcher | 50 | Mats, Steamship Bath | 122 | Steamship 1/2 | 179 |
| Hoover | 100-106 | Steamship Table | 175 | Steamship 3/4 | 212 |
| Wash | 32.2 | Mattress Covers, Steamship .. | 185 | Steamship Full | 262 |
| Waist | 32.2 | | | Tablecloths | 60 |
| Bungalows | 75 | Napkins | 11.1 | S.S. Small | 120 |
| Bungalow Aprons | 50 | Table, 26 x 26" | 16.6 | S.S. Large | 197 |
| Blankets, Steamship | 250 | Steamship | 15 | Tidies | 38 |
| Caps | 10 | Overall Coats | 106 | Tops, Table, 45 x 45" | 50 |
| Cases, Pillow, 38 1/2 x 50" .. | 43 | Pants | 150 | Towels, Barber | 11.2 |
| Pullman Pillow | 23.3 | | | Bath, 24 x 44" | 75 |
| Cloths, Hand | 25 | Pants | 100 | Face, 21 x 44" | 28 |
| Table, 70 x 70" | 156 | Steamship Waiters' | 125 | Glass, 17 x 33" | 12.5 |
| Head Rest | 16 | Pullman Blankets | 325 | Glass | 16.9 |
| Coats, Short | 106 | Hand Towels | 12.5 | Hand | 15.9 |
| Butcher | 225 | Pillow Slips | 22 | Individual | 6.05 |
| Steamship Cooks' | 125 | Sheets | 112 | Kitchen | 15 |
| Steamship Waiters' | 125 | Rags | 6 | Kitchen, 17 x 30" | 18.8 |
| Steamship Butcher | 225 | Settee Covers, Steamship | 125 | Pullman | 15 |
| Curtains, Steamship Shower .. | 75 | Sheets, 63 x 90" | 133 | Roller | 42.6 |
| Dollies, Table, 11 x 11" | 3.1 | 90 x 108" | 228 | Side, 17 x 34" | 16.7 |
| Dresses | 50 | Pullman | 112 | Silver, 17 x 30" | 25 |
| Ousters, Steamship | 25 | Steamship 1/2 | 122 | Small | 15 |
| Frocks | 200 | Steamship 3/4 | 138 | Soda | 16.9 |
| | | Steamship Full | 195 | Steamship Barber | 15 |
| | | Shirts | 50 | Turkish | 47 |
| | | Slips, Pillow | 30.8 | Trousers, White | 131 |
| | | Steamship Pillow | 33 | Uniforms | 100 |
| | | | | Unionalls | 187 |
| | | | | Vests | 50 |

Source: AIL

Weight of Family Laundry Items Per 100 Pieces

| | Pounds | | Pounds | | Pounds |
|-------------------------------|--------|------------------------------|--------|--------------------------------|--------|
| Aprons, Ladies | 50 | Napkins, Cotton, 18 x 19" .. | 8.5 | Stockings, Silk (100 Pcs.) .. | 7.5 |
| Tea | 20 | 20 x 20" | 9.4 | Golf (100 Pcs.) | 10 |
| Bath Mats | 125 | 22 x 22" | 11.4 | Table Cloths, Cotton, 54 x 54" | 70.6 |
| Blankets, Single Cotton | 300 | 24 x 24" | 13.5 | 63 x 63" | 96.5 |
| Double Cotton | 600 | 27 x 27" | 17.3 | 72 x 72" | 126 |
| Blankets, Single Wool | 400 | Night Shirts | 40 | 72 x 90" | 158 |
| Double Wool | 600 | Nightgowns | 65 | 90 x 90" | 197 |
| Blouses, Boys' | 35 | Overalls | 200 | Table Covers, Cotton, 42 x 42" | 55 |
| Cases, Pillow, 42 x 36" | 33 | Pajama Coats | 31 | 48 x 48" | 72 |
| 45 x 36" | 35 | Pajama Pants | 31 | 49 x 49" | 75 |
| 38 1/2 x 50" | 42 | Pants, Boys' | 50 | 72 x 72" | 162 |
| Collars | 5 | Robes, Bath | 150 | Towels, Bath, 18 x 36" | 39.5 |
| Curtains | 34 | | | 18 x 40" | 43.5 |
| Cloths, Wash | 4 | Sheets, 50 x 90" | 114 | 19 x 39" | 45 |
| Dailies | 6 | 63 x 90" | 133 | 21 x 42" | 53.5 |
| Dresses, Child's | 25 | 63 x 99" | 146 | 22 x 40" | 53.5 |
| House | 60 | 72 x 90" | 152 | 23 x 46" | 64 |
| Night | 34.5 | 72 x 99" | 164 | 25 x 48" | 73 |
| Face Cloths | 4 | 72 x 108" | 183 | 25 x 50" | 76 |
| Handkerchiefs, Men's | 3.3 | 81 x 90" | 171 | 29 x 55" | 97 |
| Handkerchiefs, Ladies' | 1.7 | 81 x 99" | 185 | Towels, Face | 16 |
| Hose, Men's (100 Pcs.) | 10 | 81 x 108" | 205 | Kitchen | 18 |
| Jumpers | 100 | 90 x 99" | 209 | Trousers | 131 |
| Laundry Bags | 75 | 90 x 108" | 228 | Tray Cloths | 25 |
| Mattress Covers | 200 | Shirts, Men's | 50 | Undershirts, Men's Light ... | 18.5 |
| Mats, Bath | 125 | Shirts, Men's Dress | 75 | Men's Heavy | 34.5 |
| Napkins, Cotton, 16 x 17" .. | 6.4 | Skirts | 75 | Underdrawers, Men's Light .. | 15 |
| 18 x 18" | 7.6 | Spreads, 72 x 90" | 347 | Men's Heavy | 35 |
| | | 72 x 104" | 400 | Ladies' Heavy | 30 |
| | | 80 x 90" | 385 | Unionsuits, Light | 30 |
| | | 86 x 104" | 478 | Heavy | 100 |
| | | 90 x 90" | 433 | Undervests, Ladies' | 20 |
| | | 90 x 96" | 462 | | |
| | | 100 x 104" | 556 | | |

Source: AIL

Gallons of Water in Loaded Laundry Washers

(Wheel in motion; clothes saturated)

| Size | Inches, gauge | | | | | | | | | | | | | |
|----------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 2" | 3" | 4" | 5" | 6" | 7" | 8" | 9" | 10" | 11" | 12" | 13" | 14" | 15" |
| 32 x 30 | 7.5 | 9.5 | 11 | 13 | 15 | 17 | 20 | 22 | 24 | 26 | 29 | | | |
| 36 x 36 | 11 | 14 | 17 | 20 | 23 | 26 | 30 | 33 | 36 | 40 | 44 | | | |
| 36 x 54 | 16 | 21 | 25 | 30 | 34 | 40 | 45 | 50 | 55 | 60 | 66 | | | |
| 36 x 64 | 19 | 24 | 30 | 35 | 40 | 46 | 53 | 58 | 64 | 70 | 77 | | | |
| 36 x 72 | 22 | 28 | 34 | 40 | 46 | 52 | 59 | 66 | 73 | 80 | 88 | | | |
| 36 x 84 | 25 | 32 | 39 | 46 | 53 | 61 | 70 | 77 | 85 | 93 | 102 | | | |
| 36 x 96 | 29 | 37 | 45 | 53 | 61 | 69 | 80 | 88 | 96 | 106 | 116 | | | |
| 42 x 36 | 15 | 20 | 23 | 27 | 31 | 34 | 37 | 39 | 43 | 46 | 50 | | | |
| 42 x 54 | 25 | 33 | 38 | 40 | 50 | 56 | 60 | 65 | 64 | 77 | 82 | | | |
| 42 x 64 | 27 | 35 | 41 | 47 | 54 | 60 | 65 | 70 | 76 | 82 | 88 | | | |
| 42 x 72 | 30 | 39 | 46 | 53 | 61 | 67 | 73 | 78 | 86 | 93 | 100 | | | |
| 42 x 84 | 35 | 46 | 54 | 62 | 71 | 79 | 85 | 91 | 100 | 108 | 116 | | | |
| 42 x 96 | 40 | 53 | 62 | 71 | 81 | 91 | 98 | 104 | 115 | 124 | 133 | | | |
| 44 x 36 | 17 | 22 | 25 | 30 | 34 | 37 | 41 | 43 | 47 | 51 | 55 | | | |
| 44 x 54 | 25 | 33 | 37 | 45 | 51 | 56 | 62 | 66 | 72 | 77 | 83 | | | |
| 44 x 72 | 33 | 43 | 51 | 58 | 67 | 73 | 80 | 86 | 94 | 102 | 110 | | | |
| 44 x 84 | 38 | 50 | 60 | 68 | 78 | 84 | 94 | 102 | 107 | 119 | 129 | | | |
| 44 x 96 | 45 | 59 | 67 | 80 | 91 | 99 | 110 | 115 | 125 | 136 | 146 | | | |
| 44 x 108 | 50 | 64 | 77 | 87 | 100 | 108 | 120 | 132 | 139 | 153 | 166 | | | |
| 44 x 120 | 57 | 73 | 85 | 97 | 111 | 120 | 134 | 145 | 154 | 170 | 184 | 196 | | |
| 48 x 84 | 54 | 66 | 80 | 94 | 106 | 123 | 137 | 152 | 162 | 180 | 192 | 208 | 224 | |
| 48 x 126 | 80 | 100 | 120 | 140 | 160 | 183 | 203 | 224 | 247 | 268 | 290 | 313 | 337 | |
| 54 x 84 | 60 | 72 | 85 | 100 | 115 | 130 | 145 | 160 | 175 | 189 | 204 | 220 | 235 | 250 |
| 54 x 126 | 90 | 108 | 127 | 149 | 170 | 192 | 213 | 236 | 258 | 280 | 305 | 329 | 351 | 374 |
| 60 x 126 | 85 | 115 | 132 | 156 | 180 | 203 | 227 | 249 | 272 | 297 | 320 | 344 | 368 | 390 |

Source: AIL

The table above indicates gallons of water added after saturation of load to obtain various gauge readings. The table may be useful to find the volume of water required for any washing cycle. Dry clothes absorb between one-third and one-fourth of a gallon of water per pound. A 36 x 54 metal washer, 165 pound load, using a formula of 4 suds at 3 inches and 5 rinses

at 9 inches will require a total of 384 gallons of water or roughly 2.3 gallons per pound—

Absorption 3 gal. per lb. $3 \times 165 = 50$ gals.
 Suds 4×21 , gals. at 3 inches = 84 gals.
 Rinses 5×50 , gals. at 9 inches = 250 gals.
 Total water required = 384 gals.
 $384 \div 165 = 2.32$ gals. per pound

Pipe Sizes Required

| Washer Diameter | Size of Water Pipe |
|-----------------------------|--------------------|
| 24" to 28" | 1 inch |
| 30" to 40" | 1 1/2 inches |
| 36" (wood) | 2 inches |
| 36" x 36" to 72" (metal) | 2 to 2 1/2 inches |
| 40" to 44" (wood) | 2 inches |
| 42" x 36" to 72" (metal) | 2 to 2 1/2 inches |
| 42" x 84" or longer (metal) | 2 1/2 inches |
| 48" x 60" (metal) | 3 inches |

Source: AIL

Water connections should be capable of filling and emptying the wheel at maximum water heights in less than one minute. A 42" x 84" metal washer should fill to 10 inches—130 gallons—in about one minute.

Washer Revolutions Per Minute

Dependable on Rib Height

| Diameter of Wheel | Height of Ribs | | | | | | | |
|-------------------|----------------|----|----|----|----|----|----|----|
| | 2" | 3" | 4" | 5" | 6" | 7" | 8" | 9" |
| 24" | 37 | 34 | .. | .. | .. | .. | .. | .. |
| 28" | 37 | 33 | 30 | 27 | .. | .. | .. | .. |
| 32" | 37 | 33 | 30 | 27 | 24 | .. | .. | .. |
| 36" | 37 | 33 | 30 | 27 | 24 | 22 | .. | .. |
| 42" | 36 | 32 | 29 | 26 | 24 | 22 | 20 | 18 |

Source: AIL

Washer speeds should be from 220 to 330 feet per minute dependent on the height of ribs. With an increase in rib height, fewer revolutions per minute are required to carry load to point of drop.

Starching Data

How to Use Raw Starch in the Wheel

Lack of a starch cooker in some plants makes the use of raw starch an attractive method. The required amount of raw starch should be suspended in a bucket of water and this mixture distributed evenly over the inside cylinder while the wheel is in motion. The load is run for 10 minutes.

Methods of Sizing Shirts in the Wheel

There are three methods by which shirts may be completely sized in the wheel:

1. Size in the wheel in which shirts have been washed, during the last rinse or bluing process. The water level is dropped to three inches in the inside cylinder

and the required amount of starch added to the wheel while in motion.

2. Size in the wheel in which shirts have been washed but after washing process has been completed, water is drained from wheel, the wheel is stopped and opened and the required amount of starch is poured directly over the shirts.
3. After washing process has been completed shirts are pulled, extracted and transferred to separate wheel. Procedure from here on is same as in No. 1 method described above.

Method No. 1 is standard practice in the great majority of laundries sizing shirts completely in the wheel. It is recommended because of the time and labor it saves, and the higher degree of uniformity of work it assures.

Procedure for Sizing Shirts Complete in the Wheel

1. Have three inches of water in inside cylinder of wash wheel.
2. Use one gallon full strength starch to each 25 to 35 shirts—on an average three gallons (one 12 qt. pail) to each one hundred shirts.
3. Add required amount of starch to the wheel during last rinse or bluing process, while wheel is in motion and turning toward you. Run load for a full ten minutes.
4. Increase or decrease the amount of starch used, if necessary, to meet local conditions or special requirements as to weight and body of shirt work.
5. When shirts are washed in nets figure each net as two shirts and make proper allowance for amount of starch to be used.
6. After starching, extract shirts until just a trace of water comes from the extractor. Time required will depend on speed of extractor and weight of load. Iron directly on press machine.
7. Colored shirts require 10% to 15% less starch than white shirts, so if washed separately, use proportionately less starch than recommended above. It is recommended therefore that white and colored shirts be sized separately whenever possible.

Preparation of Starch

The use of all-cooked starch for sizing shirts in the wheel is recommended because cooked starch gives work a better feel and finish, more uniform results and less is required than if starch is used raw.

Prepare the thin boiling, non-congealing starch on the basis of 8 oz. per finished gallon—the thick boiling starch on basis of 5 oz. per finished gallon.

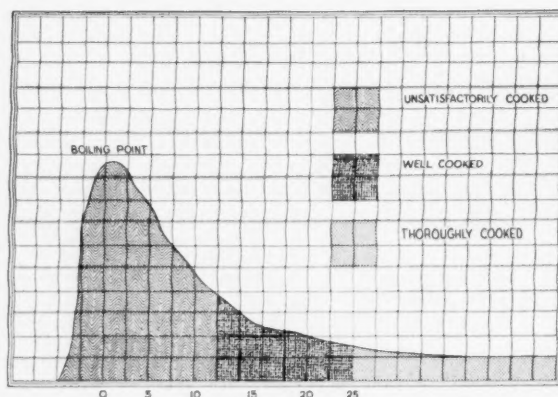
Following is a table showing amount of starch to use in preparing given quantities of cooked starch on the basis of either eight ounce or five ounce per finished gallon:

| To Make | At 8 Oz. Per Gal. | At 5 Oz. Per Gal. |
|-------------|-------------------|-------------------|
| 10 gal.—use | 5 lbs. | 3 lbs. 2 oz. |
| 15 gal.—use | 7 ½ lbs. | 4 lbs. 11 oz. |
| 20 gal.—use | 10 lbs. | 6 lbs. 4 oz. |
| 25 gal.—use | 12 ½ lbs. | 7 lbs. 13 oz. |

When preparing starch, always:

1. Weigh starch and measure water accurately. Do not guess.
2. Boil starch fairly hard for at least twenty minutes, counting time from moment boiling actually starts.
3. Check valves on starch cooker to make sure they do not leak and thus cause the starch solution to thin out.
4. Keep starch cooker and all containers clean to prevent souring.
5. Do not "build up" starch. Make fresh starch each time. Adding old starch to new is false economy.

Non-Congeaing Starch



Vertical axis shows minutes, horizontal axis shows energy expended

The graph explains why 20 or more minutes of cooking are recommended. Any shorter cooking period results in incomplete disintegration of the granules, leaving partly cooked particles that are very sticky and viscous, and cause difficulty in the laundry operation.

Bluing, Bleaching, and Souring Data

Bluing

Most blues are supplied in two or three different shades—usually a red-blue shade and a green-blue shade and frequently also an in-between shade known as a blue shade—sometimes referred to as a blue-blue shade. These various shades are all blue, of course, but the proportions of colors in them are altered slightly.

In areas of low bicarbonate alkalinity in the water, most plants prefer to sour at a low water level and raise the level for the blue bath. When sour is applied before blue, shade selection is mostly a cut-and-try procedure.

All three shades can be applied in an acid bath, although there is often a greater tendency toward grabbing with a green-blue shade than with either of the other two. This doesn't present much of a problem because there is seldom occasion to use a green-blue shade in a "sour-first" formula. The red-blue shade is most often preferred for application after sour with the blue shade running a fairly close second.

When bicarbonate alkalinity in the water is high, it usually pays to reverse the conventional procedure and

blue before souring, because it is possible to use substantially less sour to neutralize the alkalinity in four or five inches of water if the sour bath is the last operation than would be required to neutralize the alkalinity in 10 to 12 inches of water, which would have to be done if the blue were the last operation. If the bicarbonate alkalinity is very high (more than 250 ppm of NaHCO_3) a green-blue shade is likely to be most satisfactory. When the bicarbonate alkalinity is moderate or low (less than 250 ppm NaHCO_3), the choice is usually between a green-blue shade and a blue shade. A red-blue shade is seldom adaptable to a "blue-first" formula.

Quite a number of laundrymen prefer to blue before souring—even though the water in their plants is low in bicarbonate alkalinity. The idea is not primarily to save sour, but to eliminate spotty, streaky, uneven bluing. There is no guarantee that bluing before souring will eliminate bluing difficulties, but there is some basis for hoping that it will in a great many cases.

One factor in bluing practice that unquestionably accounts for a great deal of blue-grabbing and similar difficulties, is the tendency of some washmen to be in a little too great a hurry to get the blue into the wheel in conventional "sour-first" formulas.

When a load is soured at a water level of four or five inches with the intention of raising that level to 10 or 12 inches for blue, naturally the amount of sour added at the low water level is going to have to be enough to keep the load sour at the higher water level. So while the water level is still low, the load is over-soured.

If blue is applied to such an over-soured load before the high water level is reached, there is always a very strong tendency for the heavily soured fabrics to grab the blue. Unfortunately, just putting on one or two cold rinses cannot be depended upon to rinse out grabbed blue. Very often the dyeing job thus accomplished requires vigorous washing and, sometimes, heavy bleaching.

One sensible preventive measure is simply to switch the sour and blue operations so that blue cannot be ap-

plied on an over-soured load. When blue is applied to a load ahead of sour, it doesn't fully discharge upon the goods until sour is added. Without risking an uneven "take," this procedure permits a uniform distribution of blue throughout the washwheel solution and throughout the load—before the blue is fully developed. Thus, when the sour is finally applied, the blue on the load can develop evenly. As a rule, either a blue shade or a green-blue shade is more likely to be successful in such formulas than a red-blue shade.

To assure uniform bluing, it is essential that the strength of the stock solution of blue be standardized. Concentrations of two ounces of concentrated blue in two, five, or ten gallons of water are satisfactory—so long as the same concentration is always used.

Generally it seems to be preferable not to add any greater volume of 56 percent acetic acid than of the concentrated blue. If the stock solution is made up by using two ounces of concentrated blue in a five gallon crock, two ounces of 56 percent acetic acid ought to be plenty. Over-acidified blue stock solutions have been known to promote a great deal of troublesome blue-grabbing and blue-dyeing. Moreover, although most blues are free from pronounced sedimentation tendencies, any blue is more likely to settle out of solution in the crock if it is highly acidified.

Acetic acid will provide somewhat "longer mileage" on blue, but it is misleading to assume that a quart of blue can be made to last twice as long by adding two quarts of acetic acid along with it. All that that sort of thing can accomplish is to promote a muddy blue or blue-gray cast in the work.

Stock solution should always be carefully measured out in non-metallic cups or other small measuring containers (glass, plastic, or earthenware), diluted in a pail of cold water, and applied evenly across the wheel—preferably with the wheel turning toward the operator—after the water in the wheel has reached the customary level for bluing.

Source: Cowles Chemical Co.

Bleaching

Bleaches fall into two general groups: oxidizing and reducing.

An oxidizing agent adds oxygen to the discoloration to remove it. A reducing bleach takes away oxygen to accomplish the whitening process. Reducing bleaches also include stripping agents such as sodium hydrosulfite and sodium bisulfite. A stripping agent is used for complete color removal from dyed or tinted fabrics and not for general whitening practice.

The oxidizing agents include sodium hypochlorite, sodium perborate, hydrogen peroxide, and potassium permanganate. Of these, only sodium hypochlorite and hydrogen peroxide are used extensively in laundries.

Hydrogen peroxide bleach is recommended for silks, wools, and rayons because of its relative mildness and safety in use. Because the bleaching action and stain removal properties of hydrogen peroxide on cotton and linen fabrics fall short of the performance of sodium hypochlorite its usage is rather restricted. It is sold on the basis of oxygen content expressed as percentage or volume. The two most common forms are three percent (10 volume) and 30 percent (100 volume).

A three percent stock solution is normally made up. If the peroxide is purchased in the 30 percent form it is diluted with nine parts of water to form the stock solution. One pint of three percent solution per 100

pounds of clothes is the amount to use in a bath following the suds, before rinsing. A running time of 10 minutes is long enough at around 150 degrees.

Because it decomposes readily always keep peroxide out of the sunlight and keep foreign material out of the carboy in which it comes.

Sodium hypochlorite is by far the most popular form of bleach used in laundries. It may be made up in various ways but the solution poured on the washwheel is the combination of sodium, oxygen and chlorine corresponding to the formula NaOCl .

Chloride of lime bleach is the old standard of the laundry industry. For years it was the only plant method in use. The method consists of allowing proper amounts of chloride of lime to react with soda ash or modified soda to neutralize the lime hardness and produce a sodium hypochlorite bleach acceptable for use. A typical formula utilizes 10 pounds of chloride of lime with 10 pounds of soda ash, or 20 pounds modified soda, in 35 gallons of water to give a one percent available chlorine bleach. A thin slurry is made with the chloride of lime and part of the water. The alkali is then added and mixed until dissolved. After adding the balance of the water, the solution is allowed to stand until the sludge settles to the bottom. The clear solution is then ready. (Continued on following page)

(Continued from preceding page)

High test bleaching powder (calcium hypochlorite) has to a large extent replaced the chloride of lime method because it is more convenient to use. It is available in bulk quantity or in unit cans designed for the preparation of 30 gallon batches of bleach. In preparing stock solutions the calcium hypochlorite is converted into sodium hypochlorite by a procedure similar to that described for chloride of lime bleach. One unit can, containing $3\frac{3}{4}$ pounds of bleach powder, mixed with 3 pounds of soda ash, or 6 pounds modified soda, in 30 gallons of water will yield one percent available chlorine bleach. If the powder is purchased in bulk quantity the same proportions are used.

In making up bleach by either the chloride of lime or high test bleaching powder methods it is good practice to use a two-tank system. The bleach is made up in one tank then drawn or siphoned off to the other tank from which it is used. This system adds a margin of safety in that the sludge particles formed in the bleach preparation never reach the washwheel. Only the clear stock solution is used.

Because it is simple to use, carboy bleach is very popular among laundrymen. It is simply a high-strength sodium hypochlorite bleach of from 12 to 16 percent available chlorine delivered in five-gallon glass carboys. A one percent stock solution is made up by diluting it with water. If the strength of the carboy bleach is 14 percent, a dilution of one gallon of bleach in 13 gallons of water will make 14 gallons of stock solution of one percent available chlorine strength.

A stock solution should always be used on the wheel. It is too difficult to measure accurately a small amount of concentrated solution and the smaller the load in the wheel the more difficult this practice is.

How much bleach is used? Enough to achieve whiteness in the work. Two quarts of one percent bleach per 100 pounds of work is the generally accepted standard. However, this figure is not inflexible. The less one can use the better. Sometimes this amount may have to be increased slightly but it is well to investigate the remainder of the washing formula first. Excessive use of bleach always means excessive tensile strength losses.

Bleach is used after the clothes have been washed clean—after the last suds and before rinsing. This point is chosen so that the bleach will work on the stains and the fabric instead of being wasted on soil. Some soap or soap regenerator added to the operation before the bleach will give better penetration and dispersal of the bleach through the load. After adding the bleach the suds level will drop, then return to a higher level. The bleach destroys some soap but it strips more soap from the fabrics than it destroys. This results in more suds.

The water level for the bleach bath should be the

same or slightly higher than that of the preceding suds baths. Five inches is a good standard. Temperature of the water should be between 135 and 160 degrees. A good average is 150 degrees. Decomposition of bleach in the load is partially dependent on temperature, i.e., the higher the temperature the more rapid the action. Too low a temperature means that the bleach bath must be run too long to get proper results. Too high a temperature means that the bleach will decompose before properly penetrating the load.

If live steam must be used to heat the water above 135 it should be done before the bleach is added. Adding steam while bleach is in the wheel will result in spotty, excessive bleaching action with attendant damage to the clothes.

The bleach bath should run from eight to 10 minutes. Tests have shown that 80 to 90 percent of the bleach is decomposed in the first three minutes but additional time is necessary to complete the job. Running a bleach bath longer than 10 minutes wastes time and money.

Let's review the above procedures. First, one must make sure of washing the work clean. Bleach is a valuable washing aid but it cannot compensate for a poor job of soil removal. Then the proper bleach is chosen.

From the bleach chosen one makes up a one percent stock solution. If one is concerned with small quantities he may make this a 0.5 percent stock solution and double the amount used on the wheel. About two quarts of one percent stock solution is used per 100 pounds of load. If one can obtain satisfactory whiteness by using less, that is desirable. The bleach bath follows the suds. Soap or soap regenerator is added to the bleach bath to raise a suds. The bath is run in five inches of water at 150 degrees for 10 minutes. The work is then ready to be rinsed.

Use a rubber dipper to measure bleach stock solutions. If you measure your solution in pints get a pint-size dipper. Don't buy a quart dipper and guess when you have it half full each time. Wait until the full water level has been reached in the washer then add the stock solution slowly along the width of the wheel as it turns down into the solution. Never add steam *after* adding bleach to the wheel.

Leaking bleach pails are an invitation to damage claims and should be discarded at once (a prime reason for not using the washroom floor as a classifying table). When dipping out bleach beware of dipping into the sludge. (When poured into the washwheel sludge will cause pinholes in the clothes.) It is false economy to prepare a new batch of bleach stock solution by utilizing the sludge remaining from the previous batch.

Remember to use caution. The bleach in the stock solution is about 100 times as strong as when used in the wheel, so treat it with care. Even when properly used, bleach probably contributes more to tensile strength loss than any other washing supply.

Souring

The primary purpose of a souring operation is to neutralize the bicarbonate alkalinity in the water and the unrinsed alkalinity still remaining in the clothes. This neutralization is necessary because of the tendency of white cellulose materials such as cotton and linen to assume a yellow or brown color in the presence of heat when alkali is present. Other properties of a good sour include removal of iron stains and destruction of bacteria.

How much sour is used? Enough is used to bring the pH of the load to generally accepted standards. For starched work such as shirts and uniforms, attain a pH of 4.5 to 5.0. For finished family work, 5.0 to 5.5, and for wetwash, 6.0 to 6.5. No figures on amounts of sour needed to reach these values can be given since they will vary from plant to plant. Experimentation on one load will give an approximation of the correct amount to use. Checking further loads and making

any necessary small corrections will establish a standard. Once the correct amount of any given sour is determined substitutions of other sour may be made on a mathematical basis. The following table gives these ratios.

| Name | Chemical Formula | Relative Neutralizing Value Taking 56% Acetic Acid As 1.0 |
|--------------------------|--------------------|---|
| Fluosilicic Acid | H_2SiF_6 | 4.3 |
| Sodium Silico Fluoride | Na_2SiF_6 | 2.3 |
| Ammonium Silico Fluoride | $(NH_4)_2SiF_6$ | 2.4 |
| Ammonium Acid Fluoride | NH_4HF_2 | 1.9 |
| 30% Fluosilicic Acid | H_2SiF_6 | 1.4 |
| 100% Acetic Acid | CH_3COOH | 1.8 |
| 56% Acetic Acid | CH_3COOH | 1.0 |
| Sodium Acid Fluoride | $NaHF_2$ | 1.7 |
| Oxalic | $H_2C_2O_4(2H_2O)$ | 1.7 |
| 100% Hydrofluoric Acid | H_2F_2 | 5.4 |
| 30% Hydrofluoric Acid | H_2F_2 | 1.6 |

Use of this table is simple. Suppose that one has been using sodium silico fluoride and desires to change to sodium acid fluoride for greater rust removal. The table reveals that the values are in the proportion of 2.3 to 1.7. Therefore, for each 2.3 ounces of sodium silico fluoride now in use there should be used 1.7 ounces of sodium acid fluoride.

The sour listed above are all good sour, as are many commercial mixtures. However, not all acids are safe souring agents. Such chemicals as hydrochloric acid, sulphuric acid, and sodium acid sulphate will cause damage to fabrics if used, even when carefully rinsed out. There are enough good, safe sour to use without incurring the risk of damaged goods and resultant claims. Oxalic acid, widely used for removal of rust stains, must be thoroughly rinsed from the fabrics to avoid chemical damage.

Rules for the use of sour are simple. Souring is done at a low water level of 4 to 5 inches so that there may be a high concentration without wastage of supplies. The temperature is held as high as possible considering that the load must be handled after one or two more operations (130 degrees is recommended). Time of operation is about five minutes—just enough for neutralization to take place.

Rust removal is an important function of the sour bath. A sour is chosen that, in addition to neutralizing value, will also remove rust stains. A sour such as oxalic acid is used when high rust concentrations are encountered. Thorough rinsing after the operation is required to insure removal of the oxalic acid which will cause chemical damage if an excess is left in the clothes. A common mixture, tailor-made to avoid such complications, is one of oxalic and acetic acid. The oxalic acid, being more active, is used up first; leaving only acetic acid, which will not cause damage, as excess. For minor rust stain removal a sour is chosen containing an acid fluoride salt.

The point in washing operations at which a sour bath is added depends on the water supply. With water of low bicarbonate alkalinity, sour after rinsing and then blue the load. With water of high bicarbonate alkalinity, blue first and then sour. The reason for this is because the alkalinity of the water raises the pH to undesirable levels necessitating the use of excessive sour to counteract this reaction.

Properties of Sour

| Name | Commercial Form | Reducing Power | Volatile at Ironing Temperature | Amount Necessary to Replace 1 Oz. of Oxalic Acid |
|--------------------------|-----------------|----------------|---------------------------------|--|
| Acetic acid | 56% solution | Very mild | Yes | (Avoirdupois) 1.70 oz. |
| Acetic acid | 80% solution | Very mild | Yes | 1.19 oz. |
| Ammonium acid fluoride | White powder | Small | Yes | 0.90 oz. |
| Ammonium silico-fluoride | White powder | None | No | 0.71 oz. |
| Formic acid | 90% solution | Strong | Yes | 0.81 oz. |
| Hydrofluoric acid | 30% solution | None | Yes | 1.06 oz. |
| Hydrofluoric acid | 48% solution | None | Yes | 0.67 oz. |
| Oxalic acid | Crystals | Strong | No | 1.00 oz. |
| Sodium acid fluoride | White powder | Small | No | 0.98 oz. |
| Sodium silico-fluoride | White powder | None | No | 0.75 oz. |

Source: Philadelphia Quartz Co.

Extractor, Tumbler, Ironer Data

Extractors

| Type | Diameter | *RPM | **Dry Load Pounds |
|------------|----------|-----------|-------------------|
| Solid Curb | 15 | 1600-1750 | 10 |
| | 17 | 1500-1700 | 12-18 |
| | 20 | 1300-1650 | 25-30 |
| | 26 | 1200-1600 | 40-55 |
| | 28 | 1100-1400 | 60-70 |
| Open Top | 30 | 1000-1320 | 70-80 |
| | 40 | 850-900 | 150-170 |
| | 48 | 750-1000 | 220-270 |
| | 50 | 750-800 | 320 |
| | 54 | 750 | 400 |
| | 60 | 600 | 300 |

* Approximate—RPMs of similar size extractors of different manufacturers vary.

** Manufacturer's rated capacity.

Extractor revolutions per minute and pounds of centrifugal force decrease with increasing capacities. Heavier loads require longer extraction periods, although periods required will vary with atmospheric conditions and class of work handled. Wet wash should run about 10 to 12 minutes in a 30" extractor and 15 minutes in a 48" extractor.

Extraction Data

An efficient extractor should remove roughly 70 percent of the water in the load. Under-extraction produces wet material, resulting in delays and added costs in the finishing department. When the amount of moisture retained in the load reaches 50 percent of the load's dry weight, it is no longer economically

| Type | Basket Volumes | | Weight of Loads, Pounds | | |
|------------|----------------|------------|-------------------------|--------------------------|-------------------------|
| | Diameter | Cubic Feet | Dry Weight Load | Weight Before Extraction | Weight After Extraction |
| Solid curb | 20" | 1.73 | 25 | 87.5 | 37.5 |
| | 24" | 2.91 | 40 | 140 | 60 |
| | 26" | 3.31 | 50 | 175 | 75 |
| | 28" | 4.29 | 60 | 210 | 90 |
| | 30" | 5.60 | 70 | 245 | 105 |
| Open top | 40" | 12.3 | 145 | 507.5 | 217.5 |
| | 48" | 19.1 | 230 | 805 | 345 |
| | 60" | 32.4 | 380 | 1330 | 570 |
| | 72" | 46.8 | 550 | 1925 | 825 |

80% of Water Removed in Extraction

Source: AIL

feasible to continue extraction—that is, a dry load of 70 pounds should weigh approximately 105 pounds on leaving the extractor: 70 pounds dry weight plus 35 pounds retained moisture = 105 pounds. The above table assumes 2.5 pounds of water absorbed by each dry pound of clothes—an average figure. Extraction is continued until moisture retained is equal to 50 percent of dry weight, in this case 80 percent of the water is removed. Weighing a load of known dry weight before and after extraction, a laundry operator can readily check the efficiency of his extractors.

Kilowatt Hours

To Run Extractors a Given Time in Minutes

| Time In Minutes | Extractor Diameters | | | | | | |
|--------------------|---------------------|------|------|------|------|------|------|
| | 20" | 24" | 26" | 28" | 30" | 40" | 48" |
| 1 | .042 | .050 | .071 | .083 | .095 | .... | .... |
| 2 | .048 | .069 | .082 | .095 | .108 | .... | .... |
| 3 | .055 | .079 | .092 | .107 | .122 | .... | .... |
| 4 | .062 | .088 | .103 | .119 | .135 | .46 | .65 |
| 5 | .069 | .097 | .114 | .131 | .149 | .50 | .70 |
| 6 | .075 | .106 | .125 | .143 | .162 | .54 | .75 |
| 7 | .082 | .116 | .135 | .155 | .175 | .58 | .80 |
| 8 | .089 | .125 | .146 | .167 | .189 | .62 | .85 |
| 9 | .095 | .134 | .157 | .179 | .202 | .66 | .90 |
| 10 | .102 | .144 | .167 | .192 | .216 | .70 | .95 |
| 11 | .109 | .153 | .178 | .204 | .229 | .74 | 1.00 |
| 12 | .115 | .162 | .189 | .216 | .242 | .78 | 1.05 |
| 13 | .122 | .171 | .199 | .228 | .256 | .82 | 1.10 |
| 14 | .129 | .181 | .210 | .240 | .269 | .86 | 1.15 |
| 15 | .135 | .190 | .221 | .252 | .283 | .90 | 1.20 |
| 16 | .142 | .199 | .232 | .264 | .296 | .94 | 1.25 |
| 17 | .149 | .209 | .242 | .276 | .309 | .98 | 1.30 |
| 18 | .155 | .218 | .253 | .289 | .323 | 1.02 | 1.35 |
| 19 | .162 | .227 | .264 | .300 | .336 | 1.06 | 1.40 |
| 20 | .169 | .237 | .275 | .312 | .350 | 1.10 | 1.45 |

Source: AIL

The table records kilowatt hours required for extractors of various sizes at increasing running times. A 48" machine draws 1.45 K.W. hours for a 20-minute extraction period; at 2 cents a K.W. hour the power cost is 2.9 cents for the load.

Releasing Suction

Safe pulling of clothes from centrifugal extractors can be accomplished with ease if a strip of cover duck three or four inches wide is placed across the entire bottom and up the sides of the basket before the load is put in. Give one end of this strip a pull and the suction created by the centrifugal action will be released with no strain on the garments or nets. This suction is always heavy and garments should always be released from it, then lifted out.

Tumblers

Loads, Steam and Electrical Consumption

| Type | Size | Per Load | | | Per Hour (Two Loads) | | |
|----------|----------|------------------|------------|--------------|----------------------|------------|--------------|
| | | Dry Load, Pounds | K.W. Hours | Pounds Steam | Dry Load, Pounds | K.W. Hours | Pounds Steam |
| Open End | 26 x 18 | 20 | .11 | 22 | 40 | .23 | 44 |
| Open End | 36 x 24 | 26 | .15 | 29 | 52 | .30 | 58 |
| Utility | 36 x 30 | 32 | .35 | 30 | 64 | .70 | 60 |
| Utility | 36 x 38 | 52 | .56 | 48 | 104 | 1.12 | 96 |
| Utility | 36 x 36 | 40 | 1.15 | 80 | 80 | 2.30 | 160 |
| Utility | 36 x 48 | 55 | 1.70 | 110 | 100 | 3.40 | 220 |
| Utility | 42 x 42 | 70 | .93 | 82 | 140 | 1.86 | 164 |
| Utility | 42 x 60 | 100 | 1.35 | 117 | 200 | 2.70 | 234 |
| Utility | 42 x 90 | 150 | 2.00 | 175 | 300 | 4.00 | 350 |
| Utility | 42 x 120 | 200 | 2.70 | 233 | 400 | 5.40 | 466 |

Source: AIL

Capacities, power consumption and steam requirements for tumblers of various sizes are important in planning future expansions or computing costs. A 42 x 90 tumbler requires 175 pounds of steam per load and at two cents a K. W. hour will produce 150 pounds of clothes at a power cost of four cents.

Twin Cylinder and Non-Cylinder Tumblers

| Type | *Dry Load Pounds | Size | *Drying Time Lbs./minute |
|----------|------------------|---------|--------------------------|
| Twin | 15/cyl. | 26 x 24 | *5-25 |
| Non-Cyl. | 10/cyl. | | 10 |
| Non-Cyl. | 20/cyl. | | 10 |

* Manufacturer's Rated Capacity.

Conditioning Tumblers

| Size | *Dry Load Pounds | *Loads Per Hour |
|-----------|------------------|-----------------|
| **34 x 72 | 800 lbs./hour | |
| 48 | 30 lbs./load | 30 |
| 48 | 30 lbs./load | 30 |
| 48 | 30 lbs./load | 30 |
| 48 | 30 lbs./load | 30 |
| **48 x 84 | 1,500 lbs./hour | |
| **60 x 96 | 3,500 lbs./hour | |
| 72 | 200 lbs./load | 20 |

* Manufacturer's rated capacity.

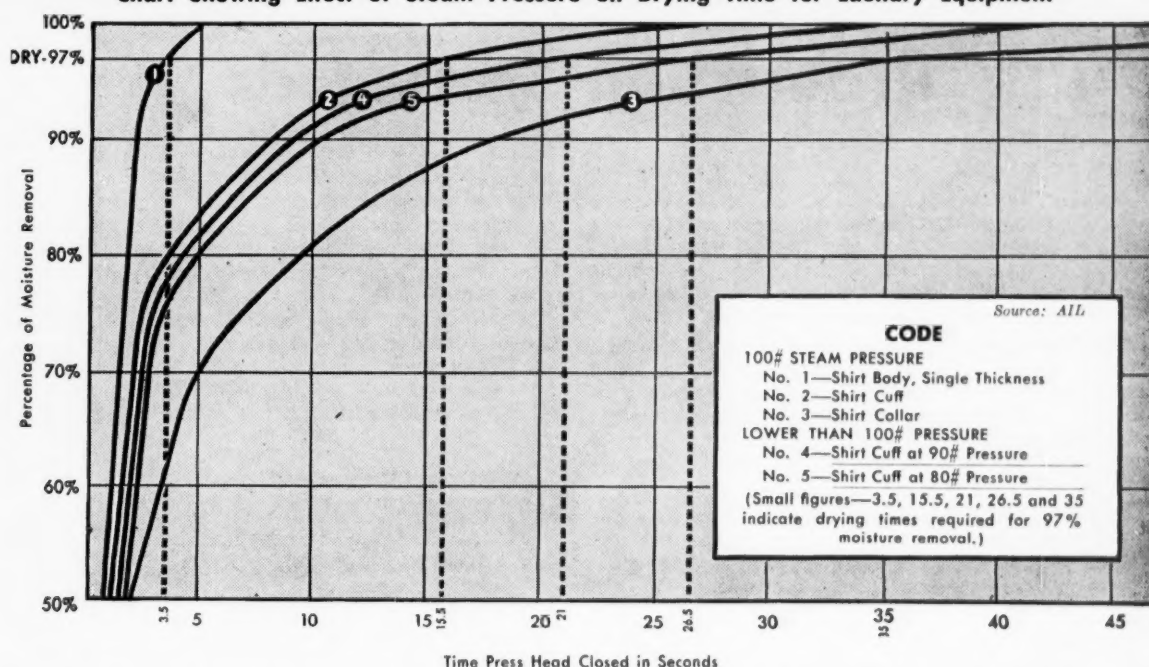
** Continuous shakeout and conditioning tumblers.

Small Gas, Steam or Electric Heated

Heat sources: 1 = gas or electric; 2 = steam; 3 = gas.

| Size (in.) and heat source | Speed range (feet per minute) | Rolls |
|----------------------------|-------------------------------|-------|
| 48—1 | 14 | 1 |
| 50—1, 2 | ✓2 | 3 |
| 54—3 | 11 | 1 |
| 56—1, 2 | 14 | 1 |
| 60—3 | 6-24 | 3 |
| 66—2 | 11 | 1 |
| 75—1, 2 | 12 | 3 |
| 80—2, 3 | 6-18 | 1-5 |
| 85—3 | 8-24 | 5 |
| 100—1, 2 | 6-48 | 1-4 |
| 104—1 | 5-30 | 5-7 |
| 110—2, 3 | 8-48 | 4 |
| 120—2 | 7-52 | 2-4 |
| 132—2 | 15-45 | 2-4 |

Chart Showing Effect of Steam Pressure on Drying Time for Laundry Equipment



Establishing 97 percent moisture removal as proper for actual laundry operation, the chart indicates the importance of adequate steam pressure at the equipment in promoting speedy and effective drying. Note for example, that at 80 pounds pressure, drying time of 26.5 seconds for a shirt cuff is 70.9 percent greater than the time of 15.5 seconds at 100 pounds pressure. Presses used in these tests were covered with new padding. Inadequate padding retards drying time as much as 3 percent of moisture removal for a definite interval of time. For example, using new padding, 97 percent of the moisture was removed from cuffs in 15.5 seconds at 100 pounds pressure. Using old padding, about 94 percent of moisture would have been removed in the same interval of time and a similar working steam pressure.

Approximate Flatwork Ironer Production Sheets Per Minute

Feeding selvage first, allowing 1 foot between each sheet, 2/3 and full apron speeds, steam at 100 lbs. pressure, 100 percent quality

| Type | 54" Sheets | | 63" Sheets | | 72" Sheets | | 81" Sheets | | 90" Sheets | |
|-----------------|------------|------|------------|------|------------|------|------------|------|------------|------|
| | 2/3 | Full | 2/3 | Full | 2/3 | Full | 2/3 | Full | 2/3 | Full |
| Handy | | 2.00 | | 1.76 | | 1.57 | | 1.42 | | 1.29 |
| Chest | 2 roll | 2.00 | 1.76 | 3.52 | 1.57 | 3.14 | 1.42 | 2.84 | 1.20 | 2.59 |
| | 4 roll | 4.84 | 7.28 | 4.28 | 6.40 | 3.81 | 5.72 | 3.45 | 5.17 | 3.14 |
| | 6 roll | 7.28 | 10.90 | 6.40 | 9.80 | 5.72 | 8.57 | 5.17 | 7.75 | 4.71 |
| | 8 roll | 9.80 | 14.55 | 8.64 | 12.80 | 7.70 | 11.42 | 6.97 | 10.32 | 6.36 |
| Double Cylinder | 24" | 7.28 | 10.90 | 6.40 | 9.60 | 5.72 | 8.57 | 5.17 | 7.75 | 4.71 |
| | 30" | 7.28 | 10.90 | 6.40 | 9.60 | 5.72 | 8.57 | 5.17 | 7.75 | 4.71 |
| Single Cylinder | 48" | 7.28 | 10.90 | 6.40 | 9.60 | 5.72 | 8.57 | 5.17 | 7.75 | 4.71 |
| | 16" x 100" | | 2.73 | 2.40 | | 2.14 | | 1.93 | | 1.77 |

Source: AIL

Approximate Flatwork Ironer Production Pounds Per Hour

Based on not over 50% retention; 100 lb. steam; good trap system

| Type | Float Roll W.A. & Flat | Family Flat Net Ident. | Family Flat Full Ident. | Commercial Flat Sheets, Cases, Etc. |
|-----------------|---------------------------|---------------------------|----------------------------|--|
| Chest | 8 roll | 300-330 lbs. | 400-485 lbs. | 465-530 lbs. |
| | 6 roll | 225-250 | 300-350 | 350-400 |
| | 4 roll | 150-165 | 200-235 | 235-270 |
| | 2 roll | 75-85 | 105-120 | 120-140 |
| Double Cylinder | 30" | 175-190 | 230-270 | 270-310 |
| | 24" | 115-130 | 155-180 | 180-205 |
| Single Cylinder | 48" | 160-175 | 210-245 | 245-280 |
| | 100" x 16" | 37-41 | 50-58 | 58-66 |

Source: AIL

Production Standards

Because they are the heart of any wage incentive plan, operator production standards are at once the point of highest importance and greatest vulnerability. Production standards for a particular job at a particular plant can be determined only by time studies conducted for that job at that plant.

"Standard production is the rate at which a normal average worker performs at an average rate of speed under average working conditions and, as a result, produces an average daily production of average quality. This rate may be expressed in the number of units of output an hour or in the number of hours to produce 100 units."*

Although it is impossible to create a single, inflexible set of standards for all laundries, the figures here are helpful as guides for rough estimation or comparison.

Washroom

| Washing and Extracting Crew | Standard Hours Per 100# | Pounds P. O. H. |
|--------------------------------|----------------------------|--------------------|
| 3 | .330 | 300 |
| 3 | .385 | 260 |
| 2 | .446 | 224 |
| 3 | .398 | 251 |
| 4 | .359 | 279 |
| 2 | .333 | 300 |
| 3 | .357 | 280 |
| 2 | .287 | 349 |

Washroom production standards are difficult to establish even with good time study. In this department the standards differ widely between plants because of substantial differences in equipment, machine loading and workflow. The above table indicates standards determined in average plants washing principally family work.

Press and Hand Touchup Standards

| Type of Equipment | Pressing Points | Hand Touchup Points |
|---|--------------------|------------------------|
| 2 Small Mushrooms and 1 Large Press. | 100 | 100 |
| 1 Small Mushroom, 1 Pants Topper and 1 Large Press. | 100 | 100 |
| 2-No. 165 Presses. | 100 | 60 |
| 2-51" Presses | 100 | 60 |
| 2-5138 Presses | 100 | 60 |
| 2-51" x 38" Presses | 100 | 60 |
| 1 Mushroom and 2 Large Presses. | 100 | 85 to 100 |
| If the principal press is a flat or square buck press | 100 | 50 |
| If largest press in a unit is a 38" press. | 60 to 85 | 60 |

All standards in either case of pressing or hand touchup are for one operator working alone, doing no folding and being served by a service operator. 100 points represent one standard hour for producing 100 units.

If net identification is used, a deduction of 10 percent

* AIL Special Report No. 141, "Wage Incentives for Power Laundry."

on press standards must be made. If garments are segregated to obtain press specialization, an increase of 10 to 15 percent of press standards is to be added. For hand touchup without spray iron, points should range from 80 to 90.

Service operator should be able to serve five operators (standard production—500 points).

Heavy work 20 to 25 pounds

Light work 8 to 10 pounds

Pressing alone 10 to 14 pounds

Assembly and Dispatching

| | Production P. O. H. |
|--|---------------------|
| Fugitives netted, Damp Work packed in cloth bags or packed in wrapping paper, No walking in dispatching work to other departments. | 200 lbs. |
| Fugitives pinned, Damp Work packed in paper bags, in dispatching work operators walk to other departments | 160 lbs. |
| Wrapping Damp Wash and Thrifty, each operator takes down own work. | 20 bundles |
| Hanging only—Fugitives netted. | 475 lbs. |
| Fold and wrap Damp Wash & Thrifty Wearing Apparel | 100 lbs. |
| Hang, take down and wrap, no folding, pinned | |
| Rough Dry Wearing Apparel. | 100 lbs. |

Tumblers

| Tumbler Size | Capacity | Time |
|--------------|----------|---------|
| 36" x 18" | 20 lbs. | 30 min. |
| 36" x 24" | 26 lbs. | 30 min. |
| 36" x 30" | 32 lbs. | 30 min. |
| 36" x 36" | 52 lbs. | 30 min. |
| 42" x 42" | 70 lbs. | 30 min. |
| 42" x 90" | 150 lbs. | 30 min. |

100 pounds per operator per hour

Fold and Wrap (Rough Dry Wearing Apparel)—

750 pieces or 560 pounds per operator per hour

Fold Bath Towels (24" x 44")

A bulk system permits greatest production. Usual time for a tumbler load is 25 to 30 minutes. One operator can usually handle three or four small open-end tumblers—loading, unloading, folding and stacking. For the complete operation a worker should produce about 100 pounds per hour at standard, doing the tumbling and folding, using four tumblers.

Sort, Check and Wrap

(Production Per Operator Per Hour)

| | |
|--|---------------|
| Flatwork—40 bundle lot—1 girl | |
| sort and check only Fantom Fast. | 365 pieces |
| Flatwork—100 bundle lot—4 girls | |
| sort, check and wrap, black marks. | 350 pieces |
| Flatwork and W. A.—40 bundle lots—1 girl | |
| sort, check and wrap, black marks. | 300 pieces |
| Flatwork and W. A.—100 bundle lots—1-10 girls, | |
| sort, check and wrap, black marks. | 200 pieces |
| Wearing Apparel | 135 pieces |
| Wrap shirts, wearing apparel. | 30-50 bundles |

Family Bundle Breakdown

In computing the work load of a plant, it is necessary to know the number of incoming bundles, the average bundle content, and standards for each item.

A few years ago a study was made of the number of common wearing apparel pieces in 2,490 family bundles, shirts and flatwork not included. Percentages of the total number of pieces are shown below.

| Items | Percent |
|--------------------------|---------|
| Pajama Pieces | 19.0 |
| Shorts | 17.5 |
| Undershirts and Vests | 13.6 |
| Dresses (Women's) | 7.9 |
| Aprons | 6.4 |
| Unionsuits | 4.9 |
| Slacks, Trousers | 4.7 |
| Bloomers, Panties | 4.4 |
| Blouses (Women's) | 4.0 |
| Belts | 3.8 |
| Nightshirts and Gowns | 3.2 |
| Slips and Petticoats | 1.9 |
| Uniforms | 1.22 |
| Skirt or Pants (Child's) | 1.22 |
| Dresses (Child's) | 1.20 |
| Skirts | 1.0 |
| Blouses (Child's) | 0.8 |
| Sweaters and Palos | .72 |
| Brassieres, Halfers | .57 |
| Kimonos | .55 |
| Overalls | .40 |
| Playsuits and Rompers | .29 |
| Chemises | .28 |
| Smocks, Gowns | .23 |
| Coats | .14 |
| Neckties | .09 |

Items such as play clothes and overalls vary considerably throughout the country. It is important, therefore, that individual samplings be made.

Wearing Apparel Points

| Men's Garments | Uniforms and Supply |
|--|---|
| Shirts, long sleeve 3.5 | Garments |
| Shirts, polo 2.6 | Uniforms, plain 6.8 |
| Shirts, sweat 1.4 | Uniforms, fancy 8.4 |
| Overalls 4.2 | Aprons, waist 1.0 |
| Coveralls 7.2 | Aprons, butcher or bib 1.8 |
| Coveralls, pants crease 11.9 | Coats 4.5 |
| Work pants 5.4 | Vests 1.7 |
| Wash pants, linen 6.2 | Jackets 3.6 |
| Wash coats 7.3 | Frocks 5.8 |
| Wash vests 1.7 | Work pants 5.4 |
| Wash ties 1.9 | Caps, covers 1.3 |
| Shorts 1.8 | Caps, soda9 |
| Shirts (under), wet 1.1 | Caps, chets and grocery 1.4 |
| Undershirts, tumbled6 | Caps, nurses 1.1 |
| B. V. D. 3.1 | Head bands6 |
| Jockey shorts8 | Chair bands & ldy. bags7 |
| Long underwear 3.3 | |
| Nightshirts 3.2 | Miscellaneous |
| P.J. trousers 2.1 | Belts5 |
| P.J. coats, open 2.8 | Handkerchiefs, sax, small flat7 |
| P.J. coats, closed 2.1 | Collars and cuffs (each)6 |
| | Puff caps5 |
| Ladies Garments | Puff or press shoulders9 |
| Dresses, plain 3.8 | Covers, cushion 1.9 |
| Dresses, fancy 5.5 | Covers, chair 9.9 |
| Sport shirts or blouses 3.0 | Covers, divan 11.5 |
| Aprons, waist 1.0 | Bath or beach robes 3.6 |
| Aprons, open neck tea 2.0 | Tablecloths 5.1 |
| Aprons, closed neck tea 3.0 | Children's Garments |
| Wash coats 4.6 | Boy's pants 2.5 |
| Skirts 2.0 | Boy's long trousers 4.1 |
| Slacks 4.4 | Boy's blouses 2.6 |
| Night gowns 3.2 | Child's washcoats 4.2 |
| Slips 1.8 | Child's bathrobes 2.0 |
| Panties 1.6 | Child's dresses 2.8 |
| Long underwear 3.3 | Child's panties 1.0 |
| Brassieres 1.4 | |

Shirt Production

| No. Operators | Description | Shirts P. O. H. |
|---------------|---|-----------------|
| 2 | Individual collar and cuffs in tandem—fast operators on piece rates. Wide bosom equipment | 24 |
| 3 | Wide bosom equipment | 14 |
| 6 | Wide bosom equipment | 16 |
| 6 | Wide bosom equipment | 24 |
| 7 | Latest bosom equipment. Includes operator on collar pole | 14½ |
| 8 | No collar pole | 16 |
| 3 | Narrow bosom equipment | 12 |
| 5 | Narrow bosom equipment | 12 |
| 6 | | |
| 8 | | |
| 2 | Old type collar attached and neckband | 13 |
| 2 | Above, budget bundle quality | 20 |
| 2 | Above, good quality, collar attached only | 20 |
| 2 | Above, good quality, neckband only | 12 |

General Shirt Standards

| | Shirts P. O. H. |
|--|-----------------|
| Completely Machine Finished, New Modern Equip. | 25 |
| Gussets Hand-Touched, Unit includes Collar and Cuff, Sleever, Bosom and Body Yoke Presses | 20 |
| Gussets, Yoke and Shoulders Hand Touched, Unit includes Collar and Cuff, Bosom and Body, and Sleever Presses | 17 |

Identification Production

In Pounds or Pieces Per Operator Per Hour

| Identification Dept. | Type of Bundles | Standards |
|-----------------------------------|---|-------------|
| Netting & Classifying | Damp Wash and Thrifty | 240 lbs. |
| | Rough Dry and Finished Family (Deduct 25 lbs. for listing) | 165 lbs. |
| | Damp Wash, Thrifty, Rough Dry and Finished Family (Deduct 25 lbs. for listing) (Using All Identification Table) | 200 lbs. |
| Bagging | White Work, Pin Color for Pocket Washing | 250 lbs. |
| Counting | Commercial | 350 lbs. |
| | Linen Supply | 1000 pieces |
| Marking—Pen & Ink | Bundle Work | 1000 pieces |
| | Rough Dry and Finished Family | 200 pieces |
| | Bundle Work, Rough Dry and Finished Family | 400 pieces |
| Marking—Machine | Bundle Work | 300 pieces |
| | Rough Dry and Finished Family | 225 pieces |
| | Bundle Work, Rough Dry and Finished Family | 90 lbs. |
| Marking—Machine | Rough Dry and Finished Family | 425 pieces |
| | Bundle Work, Rough Dry and Finished Family | 325 pieces |
| | Bundle Work | 250 pieces |
| Marking—Marking & Listing Machine | Rough Dry and Finished Family | 25 bundles |
| | Bundle Work Finished Family | 450 pieces |
| Marking Label | Bundle Work Finished Family | 350 pieces |
| Marking Label | Bundle Work Finished Family | 350 pieces |
| American Clip System | Finished Family | 350 pieces |
| Fantom Fast System | Finished Family | 140 lbs. |
| Marking—Dry Cleaning | Rough Dry and Finished Family | 400 pieces |
| | Take Off Buttons, No Cuff | 400 pieces |
| | Dusting | 50 pieces |
| | Take Off Buttons, Measuring | 35 pieces |

Note: Figures are with bundle Operator. If none is used, deduct 15%.

Flatwork Standards

One eight-roll ironer handles all small pieces and is equipped with a stacker. A small conditioning turn-

bler is used for small pieces such as napkins and barber towels; the tumbler operator's time is charged to the crew. The other eight-roll ironer is equipped with a folder and handles only sheets and tablecloths. No shakeout tumbler is used. On commercial sheets, no attention is paid to what side of the sheet gets ironed, and the machine is run at about 80 feet per minute. Two operators lay the sheets out, two feed and one folds. One stacker takes care of tying, weighing and recording for both machines.

Family sheets are run at about 68 feet per minute and must be ironed on the right side. On small tablecloths, each feeder works independently. Although the folding machine works in two lanes and folds tablecloths fed in this way, two operators are needed on folding. With the regular five-girl crew, the one operator available for preparing the tablecloths is unable to keep up with the rest of the crew. A sixth operator must then be added, or one feeder and folder must come back and prepare pieces in advance.

Typical Flatwork Standards

| Crew | | | | | Av. Wt. | Mach. | Std. Hours. | Lbs. Op. |
|---------------------------------------|--------|--------|--------|----------------------|-----------|---------|-------------|----------|
| Shaker | Feeder | Folder | Backup | Ironer | per Bdl. | Speed | for 100 lb. | Hour |
| <u>Family</u> | | | | | | | | |
| 2 | 2 | 2 | 1 | 6R-120" | 9.5 | | 2.63 | 38 |
| 2 | 2 | 2 | 1 | 6R | | 20'-40' | 2.25 | 45 |
| 2 | 2 | 2 | 1 | Willey Chest Type | | 21'-32' | 2.85 | 35 |
| 2 | 2 | 3 | | 8R-120" | | 32' | 2.272 | 44 |
| 1 | 2 | 2 | 1 | 6R-110" | 5.97 | 37' | 2.91 | 34.3 |
| 2 | 2 | 2 | 1 | 2-30' Willey 120" | 7.6 | | 3.33 | 30 |
| 1 | 2 | 2 | 1 | 6-Roll | 6.7 | 52' | 1.70 | 37 |
| 2 | 2 | 2 | 1 | 6-Roll 120" | 7.8 | 42' | 2.70 | 37 |
| 1 | 3 | 3 | | | 7.9 | | | 33.2 |
| 1 | 2 | 2 | | | 7.9 | | | 41.8 |
| | 2 | 2 | | 4-Roll American | Lot 60.6# | 15'-24' | 1.923 | 52 |
| | | | | 6R-Watts 120 | 7.5 | | 2.448 | 41 |
| 1 | 3 | 3 | 1 | 2 36"-120" | | | 3.31 | 30.2 |
| | | | | | | | 2.22 | 45 |
| <u>Commercial</u> | | | | | | | | |
| 2 | 2 | 2 | 1 | 6-Roll 120" | | 20'-60' | 2.15 | 46.5 |
| 1 | 2 | 2 | 1 | 6-Roll 110" | 50.5 | 37' | 1.56 | 39 |
| 1 | 2 | 2 | 1 | 2-30' Willey 120" | | | 2.60 | 38.4 |
| 1 | 3 | 3 | | | 18.3 | | | |
| 1 | 2 | 2 | | | 18.3 | | | |
| | 3 | 3 | 2 | 2-30" Watts 120" | | 32' | 2.272 | 44 |
| | 3 | 4 | 2 | 2-30" Watts 120" | | | 3.06 | 32.7 |
| | | | | 6-Roll 120" Watts | | | 3.82 | 26.2 |
| 1 | 2 | 2 | 1 | 6-Roll American | 28.7 | | 3.17 | 31.5 |
| | | | | | | | 2.632 | 38 |
| <u>Family and Commercial Combined</u> | | | | | | | | |
| 2 | 2 | 2 | 1 | 8R-120" | | | 2.56 | 39 |
| 1 | 2 | 2 | 1 | 4R | 6.7 | 52' | 2.70 | 37 |
| 2 | 3 | 3 | 2 | 2-30' Watts | 9.4 | 32' | 3.7 | 27 |
| 1 | 3 | 3 | | | | | 2.93 | 34 |
| 1 | 2 | 2 | | | | | 2.51 | 39.9 |
| | | | | 6R Watts 120" | | | 3.24 | 30.8 |
| 1 | 3 | 3 | 1 | 6-Roll American 100" | | | 2.50 | 40 |

Average Production on a Typical Ironer

| Article | Crew | | | | Mach. | Lbs. for Piece | Std. | Pcs. |
|--------------|--------|--------|--------|--------|-------|----------------|-------------------|---------|
| | Shaker | Feeder | Folder | Backup | Speed | | Hrs. for 100 Pcs. | Op./Hr. |
| Sheets | 2 | 2 | 2 | 1 | 40 | 1.5 | 2.88 | 34.7 |
| | 2 | 2 | 2 | 1 | 46 | 1.44 | 2.43 | 41.3 |
| | 2 | 2 | 2 | 1 | 32 | 1.44 | 3.60 | 27.8 |
| | 2 | 2 | 2 | 1 | 60 | 1.50 | 1.50 | 66.6 |
| Pillowcases | 2 | 2 | 2 | 1 | 20 | .29 | .855 | 117 |
| | 2 | 2 | 2 | 1 | 23 | .29 | .885 | 113 |
| | 2 | 2 | 2 | 1 | 32 | .29 | .963 | 104 |
| | 0 | 2 | 2 | 0 | 19 | .287 | .575 | 174 |
| Hand Towels | 2 | 2 | 2 | 1 | 40 | .17 | .40 | 250 |
| | 0 | 2 | 2 | 0 | 28 | .202 | .305 | 328 |
| Table Linen | 2 | 2 | 2 | 1 | 40 | .69 | 2.66 | 37.6 |
| | 2 | 2 | 2 | 1 | 36 | .69 | 2.76 | 36.2 |
| | 2 | 2 | 2 | 1 | 21 | .69 | 3.38 | 29.6 |
| | 0 | 1 | 2 | 3 | 21 | .888 | 1.46 | 69.9 |
| Spreads | 2 | 2 | 2 | 1 | 40 | 2.30 | 5.93 | 16.9 |
| | 2 | 2 | 2 | 1 | 36 | 2.34 | 5.85 | 17.1 |
| | 2 | 2 | 2 | 1 | 32 | 2.34 | 6.95 | 14.4 |
| | 1 | 3 | 3 | 0 | 60 | 1.28 | 1.85 | 53.9 |
| Small Pieces | 2 | 2 | 2 | 1 | 36 | .17 | .532 | 188 |
| | 2 | 2 | 2 | 1 | 32 | .17 | .50 | 200 |

Flatwork Ironer Production

| Method | Operators | | | | | Lbs. Per Operator Per Hour | | | | | |
|------------------------|-----------|---------|---------|----------|--------------|----------------------------|--------|--------|--------|----------------|----------------|
| | Shakers | Feeders | Folders | Counters | Hand Ironers | 4 Roll | 6 Roll | 8 Roll | 1 Cyl. | 2 Cyl. 29 Cyl. | 2 Cyl. 36 Cyl. |
| Net | 2 | 2 | 2 | 1 | 1 | 30 | 35 | 35 | 35 | 35 | 35 |
| | 3 | 2 | 2 | 1 | 1 | | 38 | 38 | | 38 | 38 |
| | 3 | 2 | 2 | 1 | 1 | | | 44 | | | |
| Fully Identified | 2 | 2 | 2 | 1* | | 40 | 45 | 45 | 40 | 45 | 45 |
| | 2½ | 2 | 2 | 1½* | | | 45 | 45 | | 45 | 45 |
| | 2½ | 2 | 2½ | 1* | | | 45 | 45 | | 45 | 45 |
| | 4 | 3 | 3 | 1* | | | | 50 | | | |
| Commercial | 2 | 2 | 2 | 1 | | | 50 | 50 | | 50 | 50 |
| | 2½ | 2 | 2½ | 1 | | | 50 | 50 | | 50 | 50 |
| | 3½ | 2 | 2½ | 1 | | | 50 | 50 | | 50 | 50 |
| Linen Supply | 2½ | 2 | 2½ | 1 | | | 40 | 40 | | 40 | 40 |
| Shake Feed | 1 | 2 | 2 | 1 | 1 | | 35 | 35 | | 35 | 35 |
| | 1 | 4 | 2 | | 1 | | 35 | 35 | | 35 | 35 |
| Float Roll | 2 | 2 | 2 | 1 | | | 32 | 32 | | | |

* Additional folders.

Flatwork Standards

With Folding and Stacking Machines

| Service | Piece | Pts. Per Lb. | Lbs. P. O. H. |
|------------|----------------------------|--------------|---------------|
| Commercial | Sheets | .7 | 143 |
| | Pillowcases | 1.3 | 77 |
| | Tablecloths and aprons | 1.9 | 53 |
| | Small pieces | 2.5 | 40 |
| Family | Sheets | .9 | 111 |
| | Tablecloths | 2.2 | 45.5 |
| | Small pieces & pillowcases | 2.5 | 40 |

Flatwork Standards—Family Laundry

Commercial and Linen Supply; 6-Roll Ironer—Shakefeed System; Backfold operator or checker included with crew

| Piece | Pieces P. O. H. | Points Per Piece* | Lbs. P. O. H. | Pieces Per 100 Lbs. |
|----------------------------------|-----------------|-------------------|---------------|---------------------|
| Napkins | 333 | .3 | 27 | 1250 |
| Towels | 222 | .45 | 31 | 715 |
| Pillow Cases | 91 | 1.1 | 46 | 200 |
| Common Rollers | 71 | 1.4 | 34 | 208 |
| Aprons | 100 | 1.0 | 52 | 193 |
| Table Pads | 25 | 4.0 | 50 | 50 |
| Table Covers | 50 | 2.0 | 60 | 83 |
| Spreads, Heavy (1st speed) | 18 | 5.5 | 46 | 40 |
| Sheets (3rd speed) .. | 40 | 2.5 | 60 | 67 |
| Sheets (4th speed) .. | 55 | 1.8 | 83 | 67 |
| Banquet Cloths | 23 | 4.3 | 58 | 40 |

* Based on 100 points per operator hour.

Standards and Incentives

Working from extensive time studies conducted on the job, field engineers of the American Institute of Laundering established the following production standards for a typical laundry in the Middle West. Wage incentive payments based on these standards raised the plant-wide production efficiency to 98 percent of standard.

Although careful time studies are necessary before the installation of a workable wage incentive plan, the important factor which must be kept in mind is that of allowing for sufficient flexibility in setting plant standards, in order that adaption of departmental changes may be readily made to the existing system.

A change in plant layout which permits a more effective workflow, the installation of equipment which re-

sults in greater productivity, as well as fashion changes directly affect the criteria set for production under an incentive system.

There are numerous other factors which must be taken into consideration before an incentive plan is installed in a plant. Therefore, arbitrary standards should not be set; as plant conditions change the incentive system in effect must possess that adaptability which will grant the greatest effectiveness.

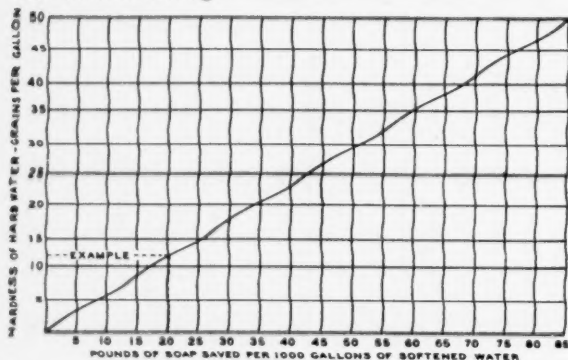
Operator Production Standards

Typical Midwestern Laundry

| Operation Name | Standard Units Per Operator Hour |
|--|----------------------------------|
| Pin and Net Identification | 165 lbs. |
| Full Identification | 165 pcs. |
| Wash and Extract | 200 lbs. |
| Damp Assembly and Dispatch | 190 bdl. |
| Damp Assembly and Dispatch | 4 lots |
| Starch Wearing Apparel | 18 lots |
| Flatwork Ironing | 33.5 lbs. |
| Tumble | 66.5 lbs. |
| Wearing Apparel Pressing | 80 pts. |
| Wearing Apparel Touch-Up | 80 pts. |
| Handkerchief Pressing | 166 pcs. |
| Sock Finishing | 140 pcs. |
| Shirt Finishing (Tiltor) | 22 pcs. |
| Shirt Finishing (Old American) | 16 pcs. |
| Shirt Shake Out (Prep.) | 222 pcs. |
| Sort and Check (Flatwork and Wearing Apparel Bdl.) | 30 bdl. |
| Wrap | 19.6 bdl. |
| Sort and Check (Family Shirt Bdl.) | 240 pcs. |
| Sort and Check (Bundle Work) | 221 pcs. |
| Sort Flatwork | 279 pcs. |
| Box shirts and Wearing Apparel | 272 pcs. |
| Check and Wrap Flat | 239 pcs. |
| Break and Sort | 260 lbs. |
| Wash | 423 lbs. |
| Extraction | 1335 lbs. |
| Damp Assembly | 500 lbs. |
| Damp Dispatch | 490 lbs. |
| Flatwork Ironing | 36 lbs. |
| Wrap Flatwork | 438 lbs. |
| Handkerchief Pressing | 163 pcs. |
| Tumbling | 105 lbs. |
| Shirt Attaching Clips | 120 pcs. |
| Bundle Work Attaching Clips | 184 pcs. |
| Shirt Finishing | 24 pcs. |
| Wearing Apparel Pressing | 100 pts. |
| Wearing Apparel Touch Up | 100 pts. |
| Bundle Work Assembly | 214 pcs. |
| Bundle Work Detaching Clips | 204 pcs. |
| Shirt Assembly | 272 pcs. |
| Shirt Detaching Clips | 191 pcs. |

Water Supply

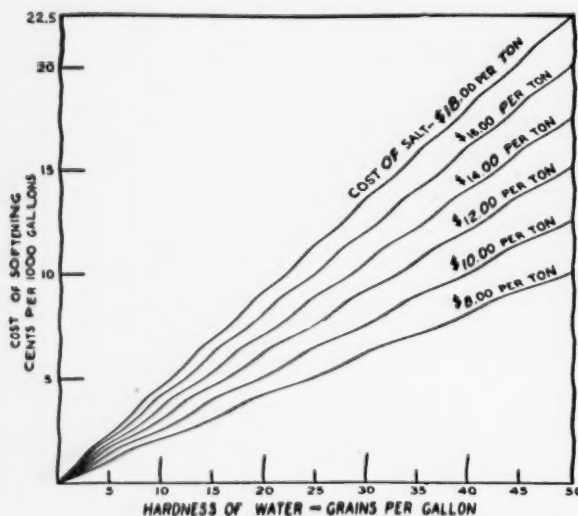
Soft Water Savings



Source: Elgin Softener Corp.

The chart plots the amount of soap saved through the use of soft water in the laundry. From the water hardness scale at the left side of the graph, trace right to the slanting line; this point on the lower, horizontal scale gives the pounds of soap saved per 1,000 gallons of softened water. As the dotted lines show in the chart above, with water of 12 grains hardness, 20 pounds of soap are saved for every 1,000 gallons of soft water used for washing.

Cost of Zeolite Softened Water



Source: Elgin Softener Corp.

With the above chart it is possible to make a rapid estimation of the costs of softening water with a zeolite system. After finding the hardness figure for the water supply in the scale across the bottom of the graph, read up to the diagonal line which gives the local cost of zeolite salt; this point on the left, vertical scale, represents the cost of softening in cents per 1,000 gallons.

What is pH?

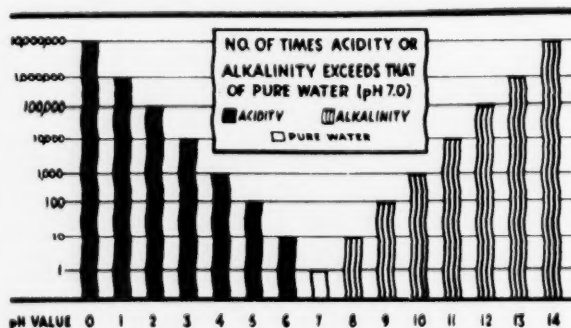
Water is a chemical compound composed of two atoms of hydrogen and one of oxygen (H_2O). One of these hydrogen atoms carries a positive electrical

Mathematical Basis of pH Scale

| pH Value | Hydroxyl Ion Concentration (Moles per liter*) | Hydrogen Ion Concentration (Moles per liter*) |
|------------|---|---|
| 14.0 | 1.0 | .0000000000000001 |
| 13.0 | .1 | .000000000000001 |
| 12.0 | .01 | .00000000000001 |
| 11.0 | .001 | .0000000000001 |
| 10.0 | .0001 | .00000000000001 |
| 9.0 | .00001 | .000000000000001 |
| 8.0 | .000001 | .0000000000000001 |
| 7.0—Water— | .0000001 | .00000001 |
| 6.0 | .00000001 | .0000001 |
| 5.5 | .000000001 | .000001 |
| 5.0 | .0000000001 | .0001 |
| 3.0 | .000000000001 | .001 |
| 2.0 | .00000000000001 | .01 |
| 1.0 | .0000000000000001 | .1 |
| 0.0 | .00000000000000001 | 1.0 |

* Since the molecular weight of hydroxyl ions is 17 and of hydrogen ions is 1, the value shown times 17 in the case of hydroxyl ions and times 1 in case of hydrogen ions gives actual grams per liter.

pH Concentration



Note from the figures that each increase or decrease of one pH unit makes a tenfold difference in concentration.

charge and is known as the hydrogen, or H , ion. The other hydrogen atom is combined with the single oxygen atom and this combination, which has a negative electrical charge, is called the hydroxyl, or OH , ion.

Pure water contains equal numbers of H and OH ions. Thus, pure water is neutral since there is a balance between the positive and negative electrical charges. Many substances, when dissolved in pure water, upset the balance between the H and OH ions. When more OH than H ions are present water is alkaline. When more H than OH ions are present water is acid.

The product of the H and the OH ions in a solution remains constant at the same temperature. Doubling the number of H ions halves the number of OH ions, and vice versa. Thus, merely measuring the concentration of H ions tells how acid or alkaline a solution is. For this purpose the *pH* scale, ranging from 0 to 14, was devised. *Titration* is a process for measuring the amount of alkali or acid in a solution.

The neutral point on the pH scale is 7. Acidity is measured downward from 7 to 0; alkalinity runs from 7 to 14. It will be noted that the scale is worked out mathematically in such a way that the relation of change between one full number and the next is tenfold, as illustrated in the graph and table on page 78.

Laundry practice has shown that certain OH ion

(alkali) concentrations produce maximum detergent action. Bicarbonate in the water supply and soil in the clothes act as acids and consume OH ions. In the neutralizing of these factors and the achieving of the alkali concentration required, the pH test is a convenient and necessary yardstick for efficient washroom practice.

Proportions Between Feed Pipes and Main Lines

(Number of smaller pipes to equal cross-sectional area of one larger pipe)

| Main Line Sizes | Feed Pipe Sizes | | | | | | | | | | | | | |
|-----------------|-----------------|------|------|------|-------|-------|-----|-------|-----|-------|-----|-------|-----|-----|
| | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3 | 3 1/2 | 4 | 4 1/2 | 5 | 6 |
| 3/8 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1/2 | 1.6 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 3/4 | 2.8 | 1.8 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1 | 4.5 | 2.8 | 1.6 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1 1/4 | 7.8 | 4.9 | 2.8 | 1.7 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1 1/2 | 10.6 | 6.7 | 3.8 | 2.4 | 1.4 | 1 | ... | ... | ... | ... | ... | ... | ... | ... |
| 2 | 17.6 | 11.0 | 6.3 | 3.9 | 2.2 | 1.6 | 1 | ... | ... | ... | ... | ... | ... | ... |
| 2 1/2 | 25 | 15.7 | 9.0 | 5.5 | 3.2 | 2.4 | 1.4 | 1 | ... | ... | ... | ... | ... | ... |
| 3 | 39 | 24.3 | 13.9 | 8.6 | 4.9 | 3.6 | 2.2 | 1.5 | 1 | ... | ... | ... | ... | ... |
| 3 1/2 | 52 | 32 | 18.5 | 11.4 | 6.6 | 4.8 | 2.9 | 2.1 | 1.3 | 1 | ... | ... | ... | ... |
| 4 | 67 | 42 | 24 | 14.7 | 8.5 | 6.3 | 3.8 | 2.7 | 1.7 | 1.3 | 1 | ... | ... | ... |
| 4 1/2 | 83 | 52 | 30 | 18.5 | 10.7 | 7.8 | 4.8 | 3.3 | 2.2 | 1.6 | 1.3 | 1 | ... | ... |
| 5 | 105 | 66 | 38 | 23 | 13.4 | 9.8 | 6.0 | 4.2 | 2.7 | 2.0 | 1.6 | 1.3 | 1 | ... |
| 6 | 151 | 95 | 54 | 33 | 19 | 14.2 | 8.6 | 6.0 | 3.9 | 2.9 | 2.3 | 1.8 | 1.4 | 1 |

Source: ALL

This table may be used when washer feed pipes of one size only are to be taken from a main line. From the chart 8.6 2-inch pipes are equivalent in cross-sectional area to one 6-inch main. Since the area of the main line ordinarily may be 25 percent less than the total of all pipes running to the washers, ten 2-inch lines may be taken from a 6-inch main.

Temperature Scale Conversions

To convert degrees Fahrenheit to degrees Centigrade, subtract 32 degrees and multiply by five-ninths. To convert Centigrade to Fahrenheit, multiply by nine-fifths and add 32 degrees. The table below gives comparative Centigrade and Fahrenheit readings with elimination of the decimals for degrees Centigrade.

| Fahrenheit | Centigrade |
|------------|------------|
| Boiling | 212° |
| 210 | 100° Point |
| 200 | 99 |
| 190 | 93 |
| 180 | 88 |
| 170 | 82 |
| 160 | 76 |
| 150 | 71 |
| 140 | 65 |
| 130 | 60 |
| 120 | 54 |
| 110 | 49 |
| 100 | 43 |
| 90 | 38 |
| 80 | 32 |
| 70 | 27 |
| 60 | 21 |
| 50 | 16 |
| 40 | 10 |
| 35 | 4 |
| 32 | 2 |
| Freezing | 0 Point |
| 30 | -1 |
| 25 | -4 |
| 20 | -7 |
| 10 | -12 |
| 0 | -18 |
| -10 | -23 |
| -25 | -32 |
| -40 | -40 |

Discharge of Cold Water

Flow rated in gallons per minute for pipes of various sizes and water of various pounds of pressure.

| Water Pressure | 3/4 inch | 1 1/2 inch | 2 inch | 3 inch |
|----------------|----------|------------|--------|--------|
| 15 | 16.09 | 83.6 | 173.5 | 486.8 |
| 20 | 18.54 | 100.0 | 203.0 | 539.0 |
| 30 | 22.63 | 122.5 | 246.0 | 660.0 |
| 40 | 26.22 | 141.2 | 287.4 | 759.0 |
| 50 | 29.3 | 157.8 | 313.2 | 847.5 |
| 60 | 32.1 | 173.0 | 352.2 | 930.0 |
| 70 | 34.95 | 187.0 | 380.8 | 1002.0 |
| 80 | 37.1 | 200.0 | 406.5 | 1072.5 |
| 90 | 39.39 | 211.8 | 443.0 | 1140.0 |
| 100 | 41.15 | 223.4 | 455.1 | 1200.0 |

Table of Water Heads and Equivalent Pressures

To estimate any pressure, multiply the head (in feet) by .433. The result is pounds per square inch. For every 2.3 feet the water head is above the discharge 1 pound per square inch is added to the pressure.

| Head in Feet | Pressure Pounds Per Square Inch | Head in Feet | Pressure Pounds Per Square Inch | Head in Feet | Pressure Pounds Per Square Inch |
|--------------|---------------------------------|--------------|---------------------------------|--------------|---------------------------------|
| 5 | 2.17 | 125 | 54.13 | 550 | 238.15 |
| 10 | 4.33 | 150 | 64.95 | 600 | 259.80 |
| 15 | 6.50 | 175 | 75.78 | 650 | 281.45 |
| 20 | 8.66 | 200 | 86.60 | 700 | 303.10 |
| 30 | 12.99 | 225 | 97.43 | 750 | 324.75 |
| 40 | 17.32 | 250 | 108.25 | 800 | 346.40 |
| 50 | 21.65 | 275 | 119.08 | 850 | 368.05 |
| 60 | 25.98 | 300 | 129.90 | 900 | 389.70 |
| 70 | 30.31 | 350 | 151.55 | 950 | 411.35 |
| 80 | 34.64 | 400 | 173.20 | 1000 | 433.00 |
| 90 | 38.97 | 450 | 194.85 | 1100 | 476.30 |
| 100 | 43.30 | 500 | 216.50 | 1200 | 519.60 |

(Continued on following page)

(Continued from preceding page)

Dimensions of Standard Wrought Pipe

Adequate water supply in the washroom is dependent upon proper balancing between main lines and washer

| Nominal Size in Inches | Actual Inside Diameter (Inches) | Inside Cross-Section Area (Square Inches) |
|------------------------|---------------------------------|---|
| 1/8 | .269 | .057 |
| 1/4 | .364 | .104 |
| 3/8 | .493 | .191 |
| 1/2 | .622 | .304 |
| 5/8 | .824 | .533 |
| 1 | 1.049 | .864 |
| 1 1/4 | 1.380 | 1.495 |
| 1 1/2 | 1.610 | 2.036 |
| 2 | 2.067 | 3.355 |
| 2 1/2 | 2.469 | 4.788 |
| 3 | 3.068 | 7.393 |
| 3 1/2 | 3.548 | 9.886 |
| 4 | 4.026 | 12.730 |
| 4 1/2 | 4.506 | 15.947 |
| 5 | 5.047 | 20.006 |
| 6 | 6.065 | 28.891 |
| 7 | .... | 38.484 |
| 8 | .... | 50.265 |
| 9 | .... | 63.617 |
| 10 | .... | 79.539 |

Source: AIL

feeder pipe requirements. A battery of ten washers, six taking 2-inch lines and four taking 1 1/2-inch lines, will require a 6-inch main. From the chart, six 2-inch pipes require 6×3.355 square inches + four 1 1/2-inch lines, $4 \times 2.036 = 28.274$ square inches required. A 6-inch pipe has a total cross-sectional area of 28.891 square inches which will allow for possible future expansion.

Since all washers will not be filling at the same time, a 20 to 25 percent reduction in capacity is permissible between the main line and total requirements of all feeder lines. In the case cited above, a 5-inch main would provide 30 percent less water than the 6-inch pipe; this might be satisfactory with staggered loads, but it would allow no provision for future expansion and would be inadequate for peak requirements.

Expansion of Pipe

Increase in length inches per 100 ft.

| Temp. °F. | Steel | Wrought Iron | Brass or Copper | Temp. °F. | Steel | Wrought Iron | Brass or Copper |
|-----------|-------|--------------|-----------------|-----------|-------|--------------|-----------------|
| 20 | .15 | .15 | .25 | 220 | 1.80 | 1.85 | 2.65 |
| 40 | .30 | .30 | .45 | 240 | 2.00 | 2.05 | 2.90 |
| 60 | .45 | .45 | .65 | 260 | 2.15 | 2.20 | 3.15 |
| 80 | .60 | .60 | .90 | 280 | 2.35 | 2.40 | 3.45 |
| 100 | .75 | .80 | 1.15 | 300 | 2.50 | 2.60 | 3.75 |
| 120 | .90 | .95 | 1.40 | 320 | 2.70 | 2.80 | 4.05 |
| 140 | 1.10 | 1.15 | 1.65 | 340 | 2.90 | 3.05 | 4.35 |
| 160 | 1.25 | 1.30 | 1.90 | 360 | 3.05 | 3.25 | 4.65 |
| 180 | 1.45 | 1.50 | 2.15 | 380 | 3.25 | 3.45 | 4.95 |
| 200 | 1.45 | 1.65 | 2.40 | 400 | 3.45 | 3.65 | 5.25 |

Allowance for expansion in any given run of pipe is dependent upon the variations in temperature to which the pipe will be subjected. The table gives expansion in inches per 100 feet of different type pipes at various degrees temperature. To compute the amount of expansion to be provided in specific lengths of pipe, read from the table the figure showing maximum expansion for 100 feet at the temperature expected. Divide this figure by 100 to determine the expansion per foot and multiply by the length of pipe under consideration. For example, 80 feet of steel pipe taking water at 180 degrees Fahrenheit will require an allowance of 1.16 inches for

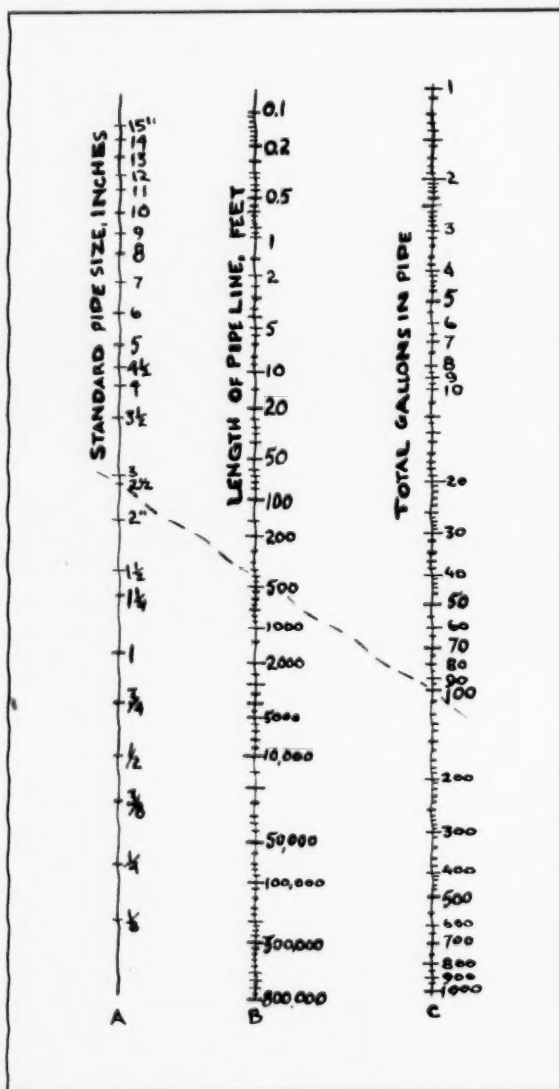
expansion — (1.45, from the chart, $\div 100 \times 80 = 1.16$ inches).

Locating Leaks and Stoppages

This chart provides a handy means of locating leaks or stoppages in concealed pipe. It is based on a standard formula for computing the length of standard pipe knowing the number of gallons of water it holds.

To use this chart simply run a straight line through the pipe size, column A, and the gallons of water in the pipe, column C, and the intersection of column B immediately gives the length of the pipe.

To locate concealed leaks, fill the pipe with water until it overflows. Close all valves which hold the water against gravity. Then do nothing for a number of hours, possibly overnight, depending upon the size of the leak and the rate at which the water level in the pipe falls. In other words, allow as much water to leak out as can



leak out. The water will fall in the pipe, of course, until the level reaches the point of leakage. Refill the pipe with water, noting the exact amount of water poured into the pipe. Draw a line on the chart from the pipe

size, column A, to the total number of gallons poured in the pipe, column C; the intersection in column B is the distance to the point of leakage. A similar method is often applicable to pipes that are stopped up. You can readily calculate the distance to the point of stoppage.

For example: the dotted line drawn across this chart shows that if the pipe size is 2½ inches, column A, and if 100 gallons of water are poured into the pipe, column C, the trouble is 400 feet away, column B.

Measuring Pump Efficiency

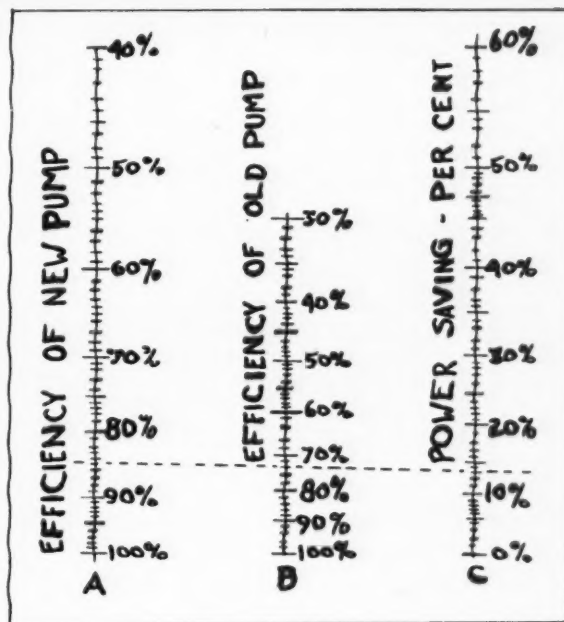
In comparing efficiency of pumps, users often make the mistake of subtracting the efficiency of the old pump from the efficiency of the new pump and calling the difference the improvement in efficiency. The correct method is to subtract the two efficiencies, and then divide the difference by the efficiency of the new pump.

If the efficiency of a present pump is 74 percent and installation of a new pump at 85 percent efficiency is planned, the change will not be worth just 11 percent. Efficiency will improve 13 percent, and it will cost 13 percent less to operate the new pump. For example:

$$0.85 - 0.74 = 0.11$$

$$0.11 \div 0.85 = 0.13$$

The accompanying chart facilitates determination of increases in efficiency without any longhand figuring. Simply run a straight line through the efficiency of the new pump, column A, and the efficiency of the old pump, column B, and the power saving or im-



provement in efficiency is given in column C. The dotted line here runs from the 85 percent efficiency of the new pump through the 74 percent efficiency of the old, and shows in column C that the power saving is 13 percent.

Useful Information

Discharge of Air Through an Orifice

In cubic feet of free air per minute at standard atmospheric pressure of 14.7 lbs. per sq. in. absolute and 70° F.

| Gauge Pressure Before Orifice in Pounds Per Sq. In. | Diameter of Orifice in Inches | | | | | | | | | | | | |
|---|-------------------------------|------|------|------|------|------|------|-----|------|------|------|------|------|
| | 1/64 | 1/32 | 1/16 | 1/8 | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 1 |
| 15 | .105 | .420 | 1.68 | 6.72 | 26.9 | 60.5 | 108 | 168 | 242 | 329 | 430 | 672 | 968 |
| 20 | .123 | .491 | 1.96 | 7.86 | 31.4 | 70.7 | 126 | 196 | 283 | 385 | 503 | 786 | 1132 |
| 25 | .140 | .562 | 2.25 | 8.98 | 35.9 | 80.9 | 144 | 225 | 323 | 440 | 575 | 898 | 1294 |
| 30 | .158 | .633 | 2.53 | 10.1 | 40.5 | 91.1 | 162 | 253 | 365 | 496 | 648 | 1013 | 1458 |
| 35 | .176 | .703 | 2.81 | 11.3 | 45 | 101 | 180 | 281 | 405 | 551 | 720 | 1125 | 1620 |
| 40 | .194 | .774 | 3.10 | 12.4 | 49.6 | 112 | 198 | 310 | 446 | 607 | 793 | 1239 | 1784 |
| 45 | .211 | .845 | 3.38 | 13.5 | 54.1 | 122 | 216 | 338 | 487 | 662 | 865 | 1352 | 1946 |
| 50 | .229 | .916 | 3.66 | 14.7 | 58.6 | 132 | 235 | 366 | 528 | 718 | 938 | 1466 | 2111 |
| 60 | .264 | 1.06 | 4.23 | 16.9 | 67.6 | 152 | 271 | 423 | 609 | 828 | 1082 | 1691 | 2435 |
| 70 | .300 | 1.20 | 4.79 | 19.2 | 76.7 | 173 | 307 | 479 | 690 | 939 | 1227 | 1917 | 2761 |
| 80 | .335 | 1.34 | 5.36 | 21.4 | 85.7 | 193 | 343 | 536 | 771 | 1050 | 1371 | 2142 | 3085 |
| 90 | .370 | 1.48 | 5.92 | 23.7 | 94.8 | 213 | 379 | 592 | 853 | 1161 | 1516 | 2369 | 3411 |
| 100 | .406 | 1.62 | 6.49 | 26.0 | 104 | 234 | 415 | 649 | 934 | 1272 | 1661 | 2595 | 3737 |
| 110 | .441 | 1.76 | 7.05 | 28.2 | 113 | 254 | 452 | 705 | 1016 | 1383 | 1806 | 2822 | 4064 |
| 120 | .476 | 1.91 | 7.62 | 30.5 | 122 | 274 | 488 | 762 | 1097 | 1494 | 1951 | 3048 | 4390 |
| 125 | .494 | 1.98 | 7.90 | 31.6 | 126 | 284 | 506 | 790 | 1138 | 1549 | 2023 | 3161 | 4552 |

Table is based on 100% coefficient of flow. For well-rounded entrance multiply values by 0.98. For sharp-edged orifices a multiplier of 0.65 may be used for approximate results

Source: "Compressed Air Data"

Computing Capacities of Tanks and Jars

Square or rectangular

1. To compute cubic contents multiply length by width by depth. For example, the cubic contents

of a tank 10 feet long, 6 feet wide and 4 feet deep is 240 cubic feet.

2. Since 1 cubic foot equals 7½ gallons, the tank above would hold 1,800 gallons. (7½ × 240 = 1,800 gallons.) (Continued on following page)

(Continued from preceding page)

Cylindrical or round

1. Square the diameter and multiply by .7854 and then multiply by the length or depth to obtain cubic contents. Capacity of a cylindrical tank 4 feet in diameter and 6 feet in length is 75.3984 cubic feet. ($4 \times 4 \times .7854 \times 6 = 75.3984$ cubic feet.)
2. With $7\frac{1}{2}$ gal. per cubic foot the tank would hold 565.49 gal.

Note: When dimensions include both feet and inches or inches alone reduce all to feet or to inches before multiplying. If measurements are all in inches, the answer will be cubic inches. To reduce cubic feet to cubic inches multiply by 1728. (1728 cubic inches = 1 cubic foot.)

Conversion Ratios

1 gallon of water weighs 8.34 pounds.
 1 gallon of water contains 231 cubic inches.
 1 cubic foot of water equals 7.5 gallons.
 1 cubic foot of water weighs 62.5 pounds.
 1 horsepower equals 746 watts.
 1 boiler horsepower equals 34.6 pounds of water evaporated per hour from and at 212 degrees Fahrenheit.

| | Multiplied by | Equals |
|----------------------------|---------------|--|
| Diameter of circle | 3.1416 | Circumference of circle |
| Diameter of circle squared | .7854 | Area of circle |
| Gallons of water | .1377 | Cubic feet |
| Cubic feet of water | 62.5 | Pounds of water |
| Gallons of water | 8.34 | Pounds of water |
| Feet head of water | .433 | Pounds of pressure |
| Pounds pressure of water | 2.91 | Feet head |
| Feet head | .52 | Pounds of pressure |
| (brine sp. gr. 1.21) | | |
| Boiler horsepower | .069 | Gallons feed water required per minute |
| Pounds pressure (brine) | 1.92 | Feet head |
| Feet head | .325 | Pounds pressure |
| (gasoline sp. gr. .75) | | |
| Pounds pressure (gasoline) | 3.08 | Feet head |
| Inches vacuum | 1.132 | Feet head |
| Feet suction lift | .882 | Inches vacuum |

Rules for Belts and Pulleys

To Find the Lengths of Belts: Add the diameter of the two pulleys together, multiply by $3\frac{1}{4}$ and divide the product by two. Add twice the distance between the center of the shafts to the quotient and that will be the length required.

To Calculate the Power of Belts: The horsepower of any belt equals its velocity in feet per minute multiplied by its width and divided by 1,000 for single and 700 for double belts. One-inch single belt, velocity 1,000 ft. per minute equals one horsepower. One-inch double belt, velocity 700 ft. per minute equals one horsepower.

To Find the Diameter of Driving Pulley: Multiply diameter of driven pulley by the number of revolutions per minute and divide by the number of revolutions of driver. Quotient will be diameter of the driver.

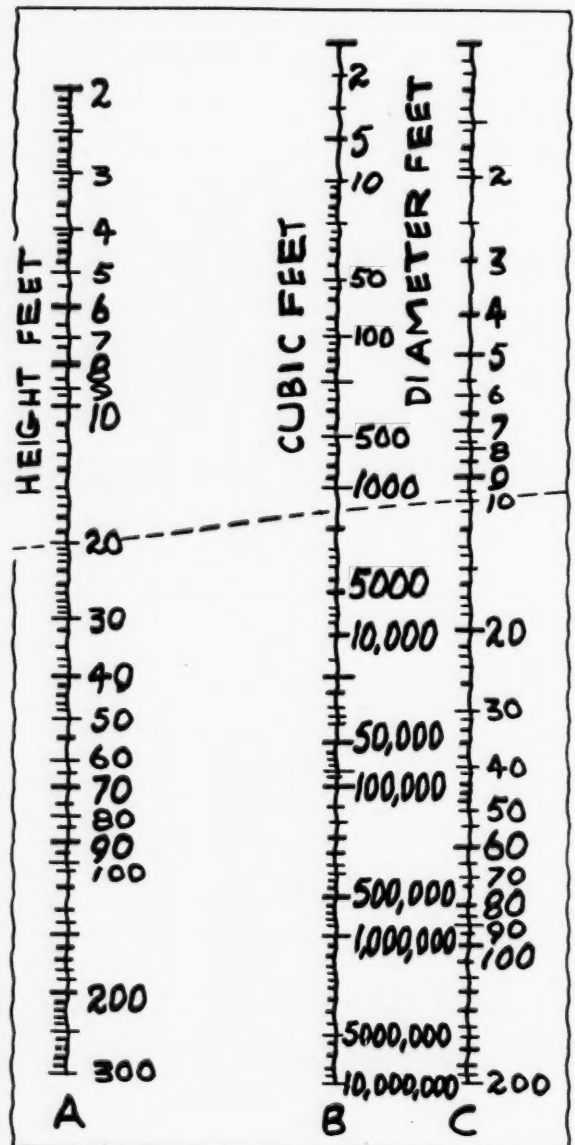
To Find the Speed of Driving Pulley: Multiply diameter of the driven pulley by its revolutions per minute and divide by diameter of driver. Quotient will be number of revolutions of driver.

To Find Diameter of the Driven Pulley: Multiply diameter of driver by its number of revolutions per minute and divide by number of revolutions of the driven. Quotient will be diameter of driven pulley.

To Find Speed of Driven Pulley: Multiply diameter of driver by its number of revolutions per minute and divide by diameter of driven. Quotient will be number of revolutions of driven.

Computing Cubic Feet in Tanks

Draw a line across the chart connecting the height of the tank with its diameter. The intersection of this line with column B gives the capacity in cubic feet without further calculations.



For example: a tank 20 feet high, column A, and 10 feet in diameter, column C, is indicated to have a capacity of a little over 1500 cubic feet, column B.

Power Plant

Boiler Efficiency

The operator of the average small plant doesn't have the time or money nor does he even need the skill to run a series of elaborate tests and go through cumbersome tables to check on his boiler efficiency. In fact, using what the engineer calls nomographs or alignment charts* is even more accurate and requires much less involved calculations.

Here are the steps you take:

1. Find dry flue-gas loss for the particular fuel you're using (Figs. 1-5).
2. Get the hydrogen loss either on the weight basis (Fig. 6) or volume (Fig. 7). Hydrogen ranges for the various fuels are given in the table below.

Hydrogen Ranges

[Range of hydrogen percent, pounds of air, and CO₂ percent for zero excess air for typical solid and liquid fuels]

| Fuel | Range of percent hydrogen | Range of lb. of atmos- pheric air at zero excess air | |
|-----------------------------|---------------------------|--|----------------------------|
| | | per 10,000 B.t.u. | percent of zero excess air |
| Anthracite | 1.8-2.9 | 7.81-7.93 | 19.3-20.0 |
| Semianthracite | 3.2-3.4 | 7.68-7.82 | 19.1-19.2 |
| Low-volatile bituminous | 3.9-4.5 | 7.62-7.73 | 18.5-18.8 |
| Medium-volatile bituminous | 4.7 | 7.77 | 18.5 |
| High-volatile bituminous A. | 4.6-5.9 | 7.51-7.73 | 17.7-18.7 |
| High-volatile bituminous B. | 4.2-5.0 | 7.56-7.73 | 18.0-18.7 |
| High-volatile bituminous C. | 4.0-4.6 | 7.54-7.67 | 18.0-18.7 |
| Subbituminous | 3.8 | 7.56-7.57 | 19.1-19.2 |
| Lignite | 2.8-3.1 | 7.47-7.52 | 19.2-19.5 |
| Coke | 0.5-3.2 | 7.63-8.13 | 19.3-20.7 |
| Softwoods | 5.8-7.02 | 7.05-7.22 | 18.7-20.4 |
| Hardwoods | 6.02-6.93 | 7.09-7.28 | 19.5-20.5 |
| Bogasse | 5.89-6.56 | 6.25-6.99 | 19.4-21.0 |
| 60° API, gasoline | 14.8 | 7.46 | 14.87 |
| 45° API, kerosene | 14.0 | 7.42 | 15.12 |
| 30° API, gas oil | 12.8 | 7.45 | 15.48 |
| 15° API, fuel oil | 11.5 | 7.58 | 15.90 |

Source: Combustion Engineering

3. Find moisture in fuel loss (Fig. 8).
4. Find moisture in air loss (Fig. 9).
5. Find unconsumed carbon in flue-gas loss (CO) (Fig. 10).
6. Find unconsumed carbon in refuse loss (ash loss) (Fig. 11).
7. Radiation loss is somewhat difficult to set for small boilers so use 3% at full load; 4.5% at half; 6% at quarter load.

Add steps 1-7 (they are in B.t.u.); subtract from the B.t.u. output per unit of fuel. (For oil it's about 19,000 B.t.u. per pound, Fig. 3.) The subtracted number divided by the full B.t.u. output per unit of fuel gives the boiler efficiency.

On the sample figures shown (Figs. 1-5), let's pick fuel oil, Fig. 3. Here we start with a CO₂ reading of

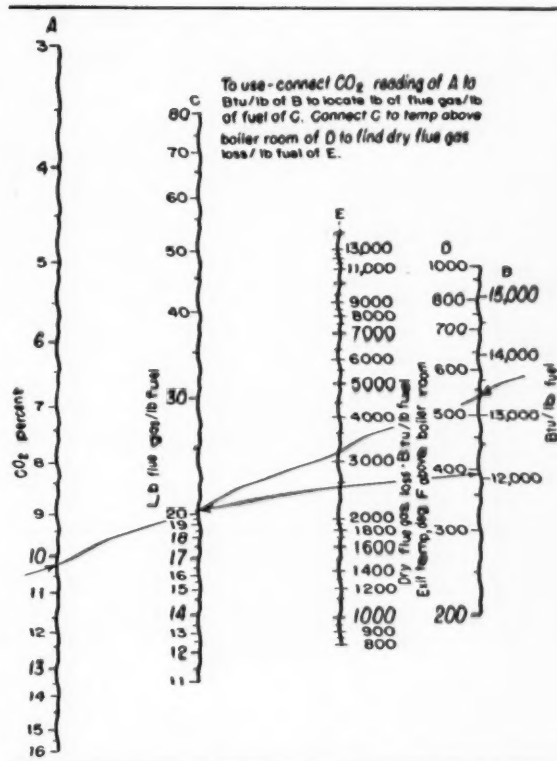


FIG. 1. Dry flue-gas loss—anthracite

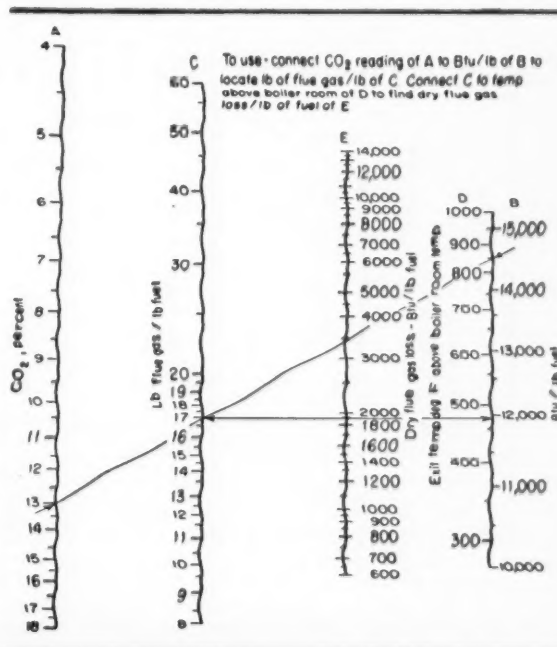


Fig. 2. Dry flue-gas loss—bituminous coal

*Source—Fuels and Combustion Handbook, Johnson and Auth, McGraw-Hill Book Co.

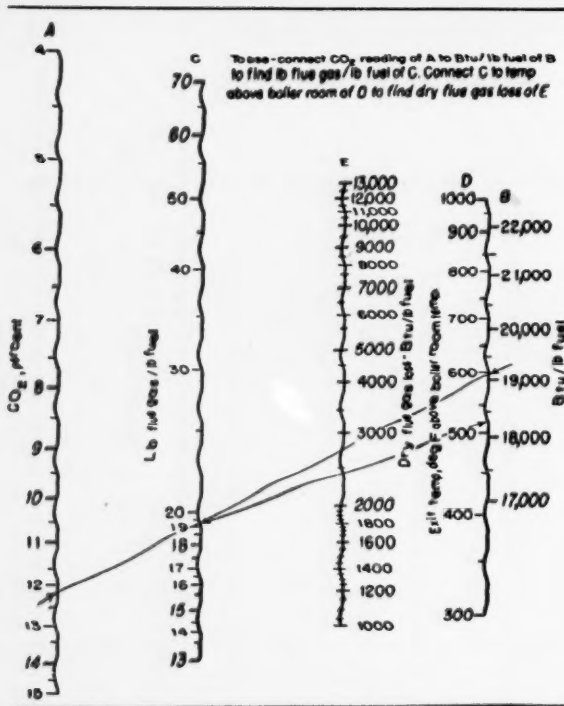


FIG. 3. Dry flue-gas—fuel oil

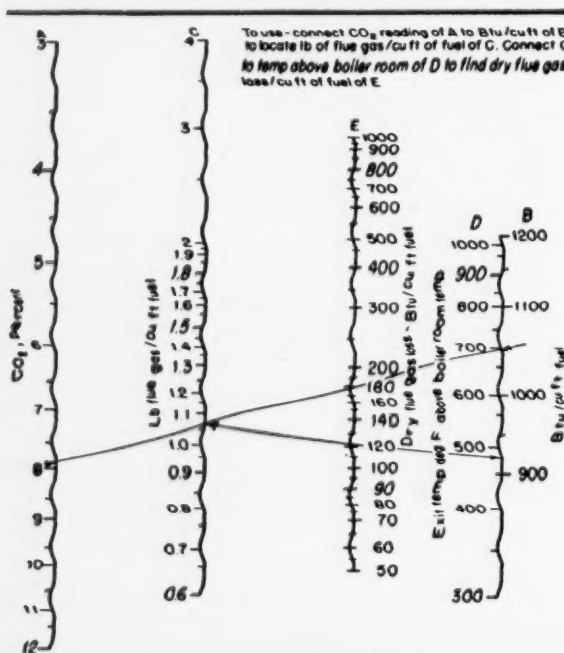


FIG. 4. Dry flue-gas loss—natural gas

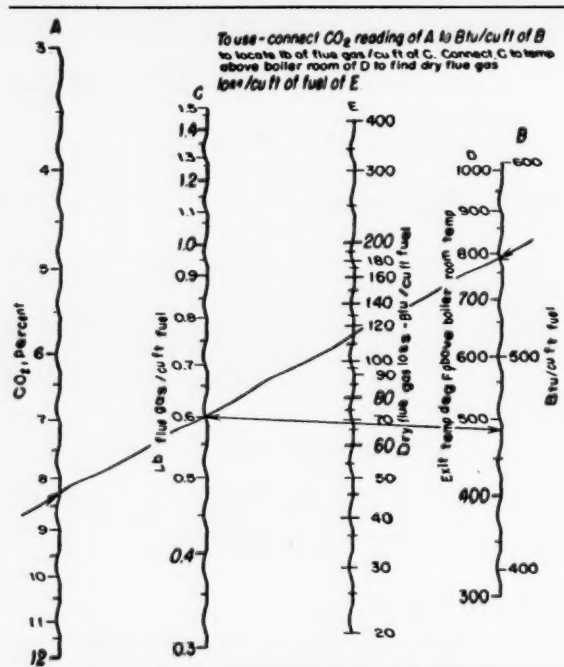


FIG. 5. Dry flue-gas loss—oil gas (Pacific Coast)

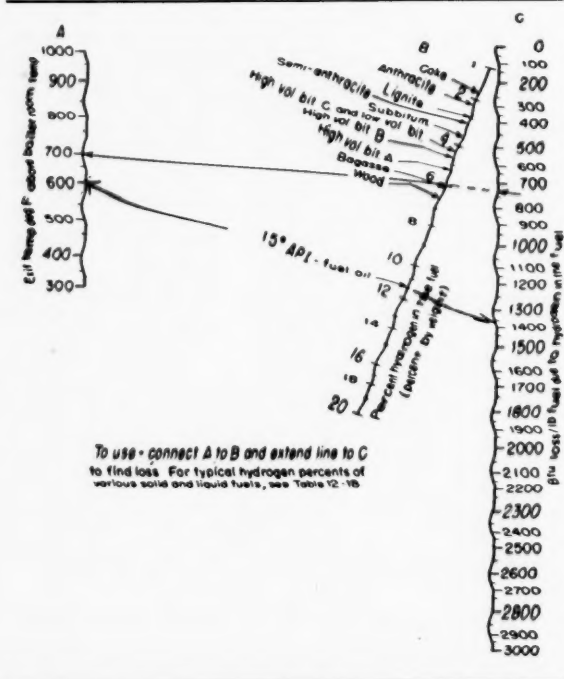


FIG. 6. Heat loss due to hydrogen in the fuel

12.25%, scale A, and the fuel oil dealer tells us our oil has 19,000 B.t.u. per pound, scale B. Draw a line between the two points. Where it crosses scale C we have the pound of flue gas developed for every pound of oil we burn. We look at the temperature of the flue gas leaving the boiler, subtract room temperature to get scale D, exit temperature of flue gas. We connect the two points, stack temperature, scale D, and pounds of

flue gas per pound of fuel, scale C. Where this line crosses scale E, we have the B.t.u. loss, Step 1 of our efficiency check.

For Step 2 we take our stack temperature 600, scale D, Fig. 3, and start with it on scale A, Fig. 6. Go from there to scale B for the fuel oil we're using and go right through that point to scale C. Pick off this reading and we're ready for Step 3.

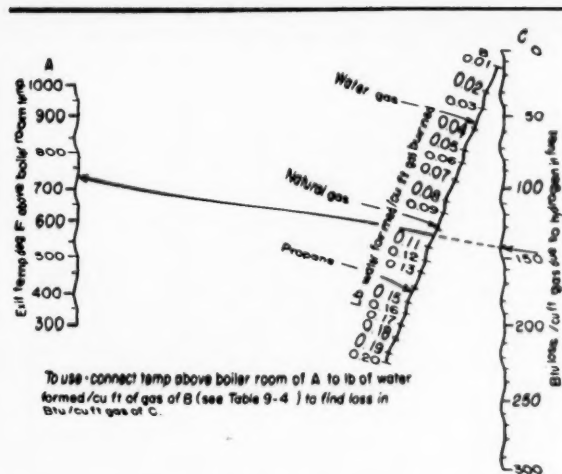


FIG. 7. Heat loss due to hydrogen in gas (volume basis)

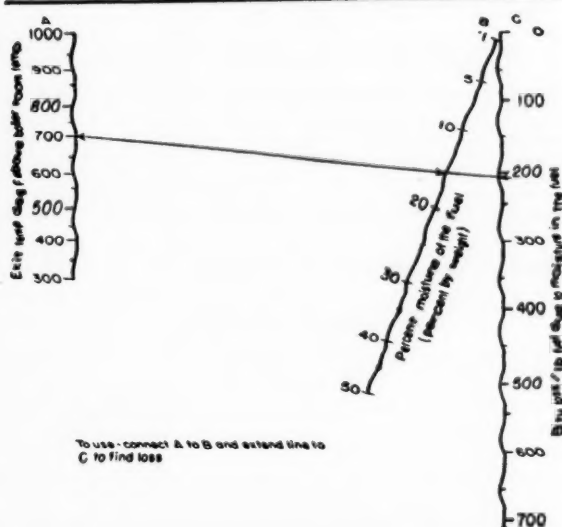


FIG. 8. Heat loss due to moisture in the fuel

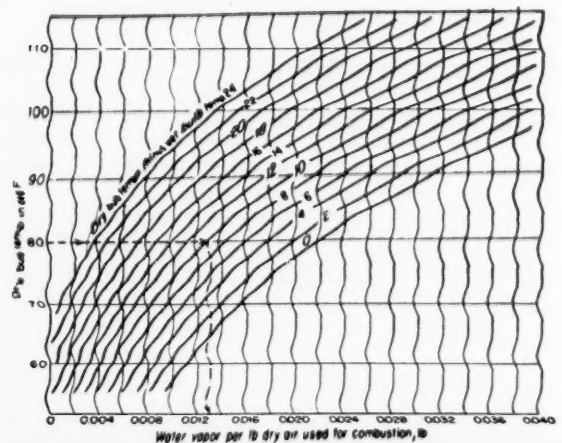


FIG. 9A. Water vapor per pound of dry air used for combustion (pounds)



FIG. 9. Heat loss due to heating water vapor

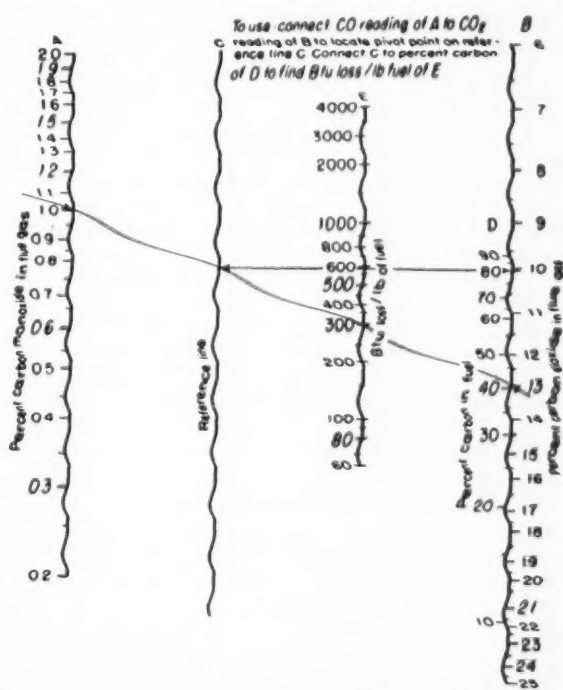


FIG. 10. Loss due to incomplete combustion of carbon as carbon monoxide in stack

In Fig. 8 you would start again with stack temperature, 600, scale A, and go over to the moisture you knew was in the oil. But with No. 1 and 2 fuel oil this moisture content is negligible so your losses here are zero.

For Step 4, moisture in air loss, you'd have to have a wet bulb and a dry bulb reading. Your local weather

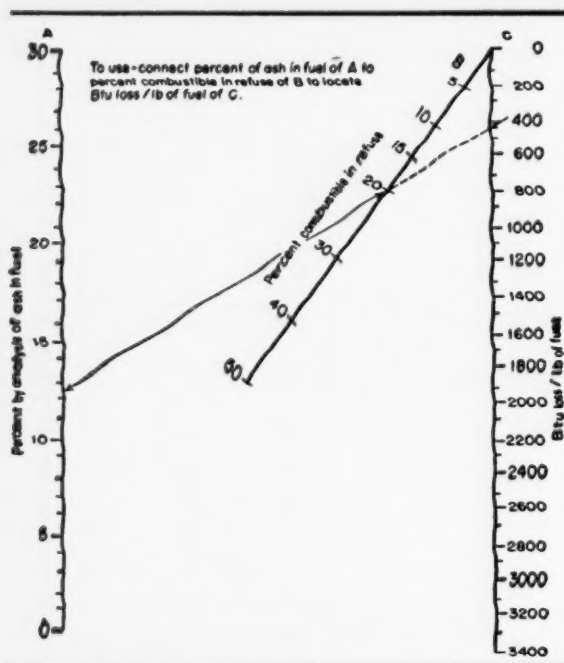


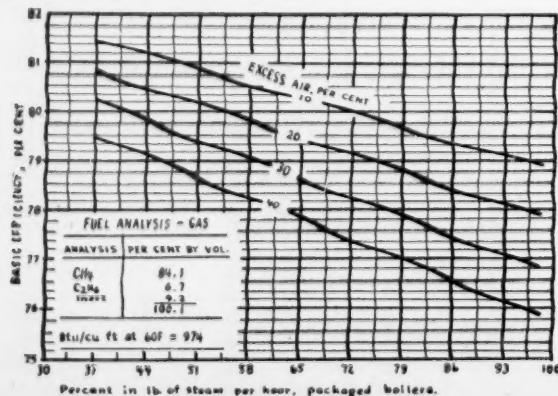
FIG. 11. Loss due to unconsumed carbon in the refuse

bureau could tell you that at the time you ran a test and it would be perfectly all right if you pulled your air for combustion from outside. If not, you should have a reading taken and use Fig. 9A. With this figure move over to Fig. 9, scale A. Cross over from there to stack temperature and where you moved across scale C you'll find the loss for Step 4.

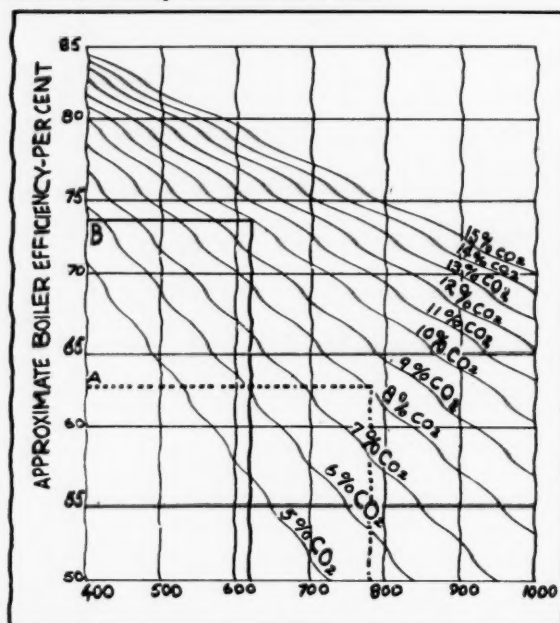
In Fig. 10 start out on scale B with the CO₂ reading you had, Fig. 3. With good mixture your CO₂ scale A, should be practically zero. For fuel oil, unless you're in bad trouble, that's what you'll have and you can pretty nearly always skip Step 5. We show it for use with other fuels or for cases of real trouble.

Similarly, for Step 6 the amount of fuel loss in refuse with No. 1 or 2 oils is too small to measure. But the chart (Fig. 11) is used for coal particularly. Get from your coal dealer the figure for scale A. You'd have to send a sample of your ashes to a laboratory to get scale C. Then you'd connect the two points as in the other charts and where you cross the scale B you'd pick off your loss from this cause.

Boiler Efficiency Chart for Gas

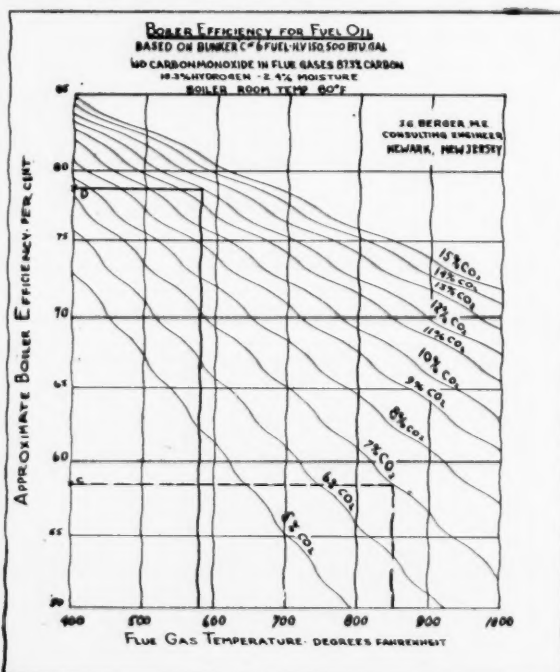


Boiler Efficiency Chart for Soft Coal



Based on flue gas temperature and CO₂ content, the chart provides an approximate efficiency rating for coal-fired boilers. To compute the efficiency of an installation with a flue temperature of 620 degrees and CO₂ content of 10 percent, trace up from the 620 point at the bottom of the chart to the diagonal line representing 10 percent; intersection gives approximate boiler efficiency rating of 73.5 percent

Boiler Efficiency Chart for Fuel Oil



Flue gas temperature and CO₂ content known, find flue gas temperature on lower scale and follow up to diagonal line designating CO₂ percentage; point of intersection at left gives approximate boiler efficiency. Dotted line "C" illustrates that boiler with flue temperature of 850 degrees and 7 percent CO₂ content will have efficiency of approximately 58.5 percent. Lowering temperature to 580 degrees and increasing CO₂ to 12 percent would bring boiler efficiency up to 78.5 percent as shown by solid line "D"

Storage Heater Requirements

| Number Washers | General Laundry | | | Wet & Family | | | Flat Work Laundry | | |
|----------------|------------------|-------------------|------------------------|------------------|-------------------|------------------------|-------------------|-------------------|------------------------|
| | Gallons Per Hour | Engine Horsepower | Storage Size (Gallons) | Gallons Per Hour | Engine Horsepower | Storage Size (Gallons) | Gallons Per Hour | Engine Horsepower | Storage Size (Gallons) |
| 1 | Small 75 | 3 | 100 | 100 | 4 | 100 | 150 | 6 | 100 |
| | Med. 100 | | 150 | 150 | | 150 | 250 | | 150 |
| | Big 140 | 5 | 200 | 210 | 6 | 175 | 350 | 8 | 175 |
| 2 | Small 150 | 5 | 150 | 200 | 6 | 150 | 300 | 8 | 150 |
| | Med. 200 | | 200 | 300 | | 175 | 500 | | 175 |
| | Big 280 | 8 | 250 | 420 | 9 | 200 | 700 | 11 | 200 |
| 3 | Small 225 | 8 | 250 | 300 | 9 | 200 | 450 | 10 | 200 |
| | Med. 300 | | 300 | 450 | | 250 | 750 | | 250 |
| | Big 420 | 12 | 400 | 630 | 11 | 300 | 1050 | 13 | 300 |
| 4 | Small 300 | 9 | 300 | 375 | 11 | 250 | 575 | 12 | 250 |
| | Med. 400 | | 400 | 575 | | 300 | 950 | | 300 |
| | Big 550 | 15 | 500 | 800 | 14 | 400 | 1350 | 16 | 400 |
| 5 | Small 350 | 12 | 400 | 450 | 12 | 300 | 700 | 14 | 300 |
| | Med. 475 | | 500 | 700 | | 400 | 1150 | | 400 |
| | Big 675 | 20 | 600 | 970 | 16 | 500 | 1650 | 20 | 500 |
| 6 | Small 400 | 18 | 500 | 525 | 15 | 400 | 825 | 16 | 400 |
| | Med. 550 | | 600 | 825 | | 500 | 1350 | | 500 |
| | Big 775 | 25 | 700 | 1140 | 20 | 600 | 1950 | 23 | 600 |
| 7 | Small 450 | 20 | 600 | 600 | 16 | 500 | 950 | 18 | 500 |
| | Med. 625 | | 700 | 950 | | 600 | 1550 | | 575 |
| | Big 900 | 30 | 800 | 1300 | 20 | 700 | 2250 | 25 | 650 |
| 8 | Small 500 | 25 | 700 | 675 | 18 | 600 | 1075 | 20 | 575 |
| | Med. 700 | | 800 | 950 | | 700 | 1750 | | 650 |
| | Big 1015 | 35 | 900 | 1450 | 25 | 800 | 2525 | 28 | 725 |
| 9 | Small 550 | 30 | 800 | 750 | 20 | 700 | 1200 | 25 | 650 |
| | Med. 775 | | 900 | 1075 | | 800 | 1950 | | 725 |
| | Big 1125 | 38 | 1000 | 1600 | 28 | 900 | 2800 | 33 | 800 |
| 10 | Small 600 | 35 | 1000 | 850 | 25 | 800 | 1325 | 27 | 725 |
| | Med. 850 | | 1100 | 1200 | | 900 | 2150 | | 800 |
| | Big 1240 | 45 | 1200 | 1750 | 33 | 1000 | 3075 | 37 | 875 |
| 11 | Small 650 | 40 | 1100 | 925 | 28 | 900 | 1450 | 30 | 800 |
| | Med. 925 | | 1200 | 1325 | | 1000 | 2350 | | 875 |
| | Big 1350 | 50 | 1300 | 1900 | 35 | 1100 | 3350 | 40 | 950 |
| 12 | Small 700 | 45 | 1300 | 1000 | 30 | 1000 | 1575 | 35 | 870 |
| | Med. 1000 | | 1400 | 1450 | | 1100 | 2550 | | 950 |
| | Big 1460 | 60 | 1500 | 2050 | 38 | 1200 | 3600 | 45 | 1025 |

Source: Whitlock Mfg. Co.

For Step 7 you would use the figures suggested for the load you're carrying on the boiler.

Although no definite rule can be applied to the selection of the proper storage heater to cover conditions in every laundry, this table indicates requirements usually applicable to various types and sizes of plants. Output in gallons per hour is figured for a temperature increase

of from 40 degrees to 180 degrees Fahrenheit. Heating to 160 degrees, it is possible to obtain one-fifth more water with the same engine and heating unit. In those plants where a preheater is used and water comes to the storage heater at temperatures well above 40 degrees, proper allowance must be made in the size of heater selected.

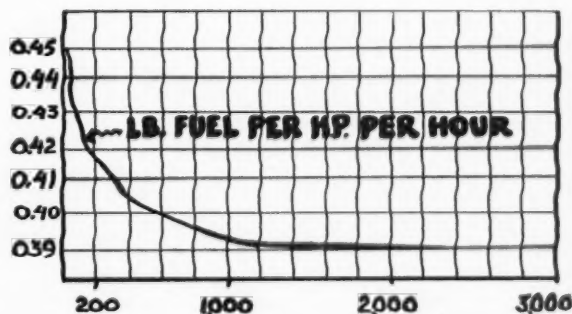
Diesel Fuel Consumption

The accompanying chart plots approximate fuel consumption of various diesels, based on prewar diesel efficiencies.

For instance, if requirements are very small—50 horsepower or even less—figure on a fuel consumption of 0.45 pounds per horsepower per hour with a modern engine. If a 100 h.p. diesel is employed, the consumption will be about 0.42 pounds per horsepower per hour. The curve shows that with increase in engine size the fuel consumption improves rapidly from the smallest sizes to 200 horsepower. From 200 to 1,000 horsepower the improvement is less rapid. And from 1,000 to 3,000 horsepower the improvement is very slight; it is practically 0.39 pounds per horsepower per hour for all of the sizes in that range.

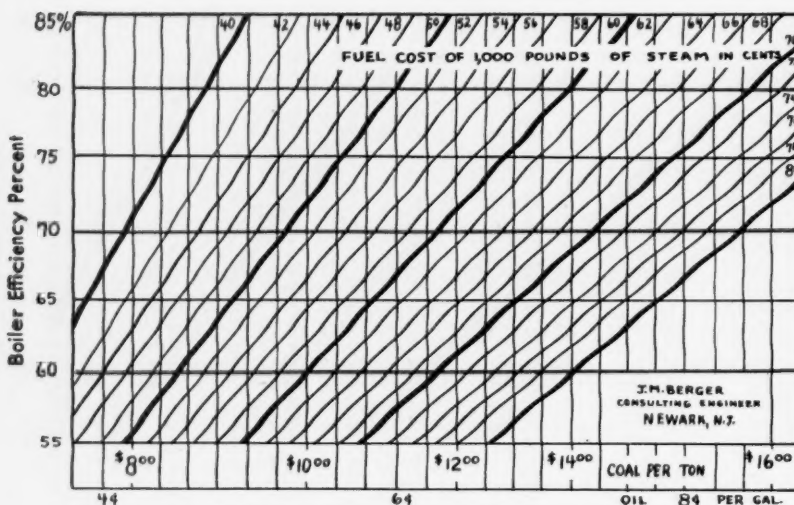
To determine the efficiency of any engine size, with any fuel, multiply the B.t.u. value of the fuel per pound by the number of pounds per horsepower per hour and divide the product into 2,546.

For example, if the fuel contains 20,000 B.t.u. per pound and requirements call for a 500 h.p. engine,



multiply 20,000 by (from the chart) 0.40, which gives 8,000 as the product. Now divide 2,546 by 8,000 and it will be found that the engine will have an efficiency of 31.8 percent, which is a high efficiency as compared with most engines of other types. This means that 31.8 percent of the heat contained in the fuel will be converted into work. Even at 0.45 pounds of fuel per horsepower per hour, other conditions being the same, efficiency will be 28.3 percent.

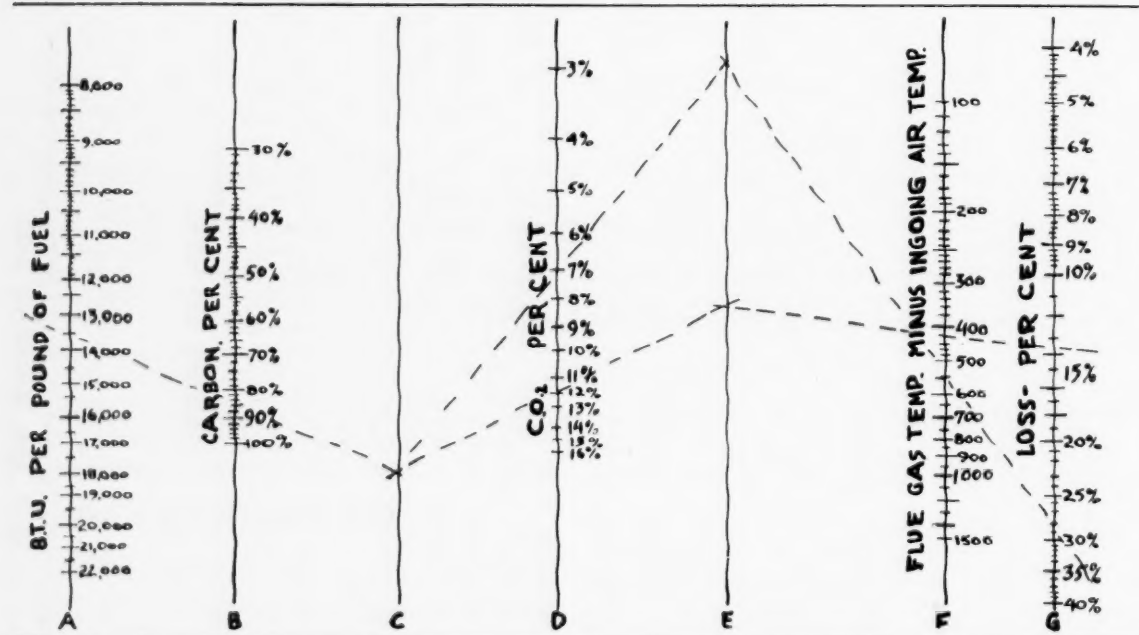
Steam Cost Chart



Based on 14,000 B.t.u. per pound of coal and 150,000 B.t.u. per gallon of oil steam pressure 105 pounds ga., moisture 2%, feed water 205° F.

Chart indicates the cost of steam at varying prices for coal and oil with different over-all operating efficiencies. From cost of oil or coal at the bottom of chart trace up to point of assumed boiler efficiency on the scale at the left. The point of intersection on the slanting line will show fuel costs per 1,000 pounds of steam and can be read to nearest cent or to a tenth of a cent by proportion. For example, a laundry using No. 6 Bunker C oil selling at 5.2 cents per gallon with a boiler of 65 percent efficiency will be paying 53.4 cents per 1,000 pounds of steam. Improving the boiler efficiency to 75 percent will cut steam cost to 46 cents, resulting in a saving of 7.4 cents per 1,000 pounds. Or a 70 percent efficient boiler burning 14,000 B.t.u. coal selling at \$10 per ton will deliver 1,000 pounds of steam at 51 cents per thousand pounds. This chart may be used in plotting the comparative costs of coal and oil or for figuring possible savings from stokers and combustion controls. If fuel costs go higher than shown on chart use one half fuel cost and multiply resulting cost of steam by 2.

Computing Heat Loss in the Flue



Using this chart to compute heat loss in flue, zigzag a ruler from left to right, as shown by dotted lines.

For example, the heat value of coal used in a certain plant is 13,500 B.t.u. per pound; 85 percent of the coal is carbon; the flue gas contains seven percent CO₂; the flue gas temperature is 600 degrees F.; and the temperature of the air entering the furnace is 75 degrees F. What is the heat loss up the chimney due to low CO₂ and the temperature rise of (600 degrees minus 75 degrees) 525 degrees F.?

Applying the chart, the dotted lines show the solu-

tion of the problem as follows: run a straight line through the 13,500 B.t.u., column A, and the 85 percent carbon, column B, and locate the intersection in column C. Then run a line through that point in column C and the seven percent CO₂ in column D, locating a point in column E. Trace a line through that point in column E and the 525 degree difference, column F, and the intersection with column G shows the fuel loss to be 27.7 percent.

Assume furnace conditions are improved to the extent that CO₂ becomes 12 percent and flue gas temperature

Table of Factors

For Determining Trap Capacities at Reduced Pressures

| Minimum Operating Pressure | Maximum Operating Pressure | | | | | | | | | | | | | | | | | |
|----------------------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 5# | 10# | 15# | 20# | 30# | 40# | 50# | 60# | 70# | 80# | 90# | 100# | 125# | 150# | 200# | 225# | 250# | 300# |
| 1/10 lb. | .14 | .10 | .09 | .08 | .07 | .06 | .05 | .05 | .05 | .04 | .04 | .04 | .04 | .04 | .03 | .03 | .03 | .03 |
| 1/4 lb. | .22 | .16 | .14 | .12 | .10 | .09 | .08 | .07 | .07 | .07 | .06 | .06 | .06 | .05 | .05 | .04 | .04 | .04 |
| 1/2 lb. | .32 | .22 | .19 | .17 | .14 | .12 | .11 | .10 | .09 | .09 | .08 | .08 | .07 | .07 | .06 | .06 | .05 | .05 |
| 1 lb. | .45 | .32 | .26 | .23 | .19 | .17 | .15 | .14 | .13 | .12 | .11 | .11 | .10 | .10 | .09 | .08 | .08 | .08 |
| 2 lbs. | .63 | .45 | .36 | .33 | .27 | .23 | .20 | .19 | .18 | .17 | .16 | .16 | .15 | .13 | .12 | .11 | .11 | .11 |
| 3 lbs. | .78 | .55 | .45 | .40 | .33 | .29 | .27 | .24 | .23 | .21 | .20 | .19 | .18 | .16 | .15 | .14 | .13 | .13 |
| 4 lbs. | .89 | .64 | .52 | .46 | .38 | .33 | .30 | .27 | .26 | .24 | .23 | .23 | .20 | .19 | .17 | .16 | .15 | .15 |
| 5 lbs. | 1.00 | .71 | .58 | .52 | .43 | .37 | .34 | .31 | .29 | .27 | .26 | .25 | .23 | .21 | .19 | .18 | .18 | .16 |
| 10 lbs. | | 1.00 | .82 | .72 | .61 | .52 | .48 | .44 | .41 | .39 | .37 | .36 | .32 | .30 | .27 | .26 | .25 | .23 |
| 15 lbs. | | | 1.00 | .85 | .73 | .62 | .59 | .56 | .51 | .48 | .45 | .43 | .39 | .36 | .32 | .30 | .29 | .27 |
| 20 lbs. | | | | 1.00 | .83 | .73 | .66 | .61 | .58 | .55 | .51 | .49 | .44 | .42 | .36 | .34 | .33 | .31 |
| 25 lbs. | | | | | .91 | .80 | .73 | .69 | .65 | .61 | .55 | .53 | .47 | .46 | .40 | .38 | .37 | .34 |
| 30 lbs. | | | | | 1.00 | .88 | .79 | .75 | .70 | .66 | .60 | .59 | .54 | .50 | .45 | .42 | .41 | .38 |
| 40 lbs. | | | | | | 1.00 | .90 | .84 | .80 | .76 | .69 | .67 | .61 | .57 | .50 | .48 | .46 | .43 |
| 50 lbs. | | | | | | | 1.00 | .93 | .89 | .84 | .78 | .75 | .68 | .63 | .56 | .53 | .51 | .48 |
| 60 lbs. | | | | | | | | 1.00 | .93 | .88 | .83 | .80 | .73 | .68 | .60 | .57 | .55 | .52 |
| 70 lbs. | | | | | | | | | 1.00 | .94 | .89 | .85 | .78 | .73 | .64 | .61 | .59 | .55 |
| 80 lbs. | | | | | | | | | | 1.00 | .95 | .91 | .82 | .75 | .68 | .66 | .63 | .59 |
| 90 lbs. | | | | | | | | | | | 1.00 | .95 | .87 | .81 | .71 | .68 | .66 | .61 |
| 100 lbs. | | | | | | | | | | | | 1.00 | .91 | .85 | .75 | .73 | .70 | .64 |
| 125 lbs. | | | | | | | | | | | | | 1.00 | .93 | .83 | .80 | .75 | .71 |
| 150 lbs. | | | | | | | | | | | | | | 1.00 | .89 | .86 | .80 | .75 |
| 175 lbs. | | | | | | | | | | | | | | | 1.00 | .94 | .92 | .87 |
| 200 lbs. | | | | | | | | | | | | | | | | 1.00 | .96 | .90 |
| 225 lbs. | | | | | | | | | | | | | | | | | 1.00 | .97 |
| 250 lbs. | | | | | | | | | | | | | | | | | | 1.00 |

Source: V. D. Anderson Co.

Although a steam trap will operate at pressures below those for which it is designed, the capacity decreases with the fall in pressure. The table above gives correction factors for determining trap capacities at reduced pressures. Locate the normal operating pressure in the top line; follow down this column to the reduced pressure desired. The point of intersection shows the correction factors; multiply the normal trap capacity by the cor-

rection factor, and the product is the trap capacity under the reduced pressure. For example, if a trap designed for 235 pounds pressure delivers 1800 pounds of condensate per hour at maximum operating pressure, at 70 pounds pressure the capacity will be $1800 \times .61$, correction factor in this case, = 1098 pounds of condensate per hour at the reduced pressure. Excess condensate in heated equipment lowers the temperature.

Flexible Metal Hose—Lengths and Minimum Bending Distances

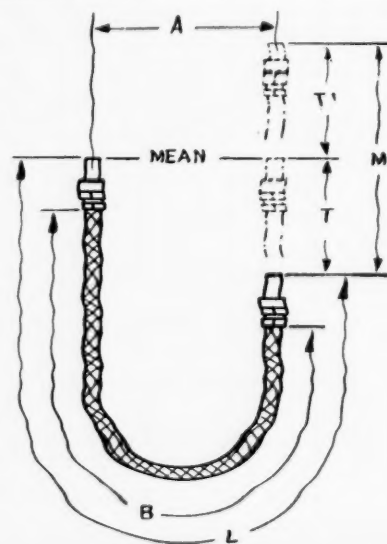
Length of hose includes three factors: Bending Distance A, Travel of Hose M (T + T') and Coupling Factor C. With installation at minimum bending distance A and no travel, take length L from table. For hose subject to travel and installed at distance A, take L from table and add one-half travel when T and T' are equal; when they are not, add the larger. To calculate hose length independently, use following formulae:

Hose I. D. 1/4" to 2": Length = $2\frac{1}{2} A + C + T$ (use T or T' whichever is greater)

Hose I. D. 2 1/2" to 6": Length L = $1\frac{3}{4} A + C$ (no travel)

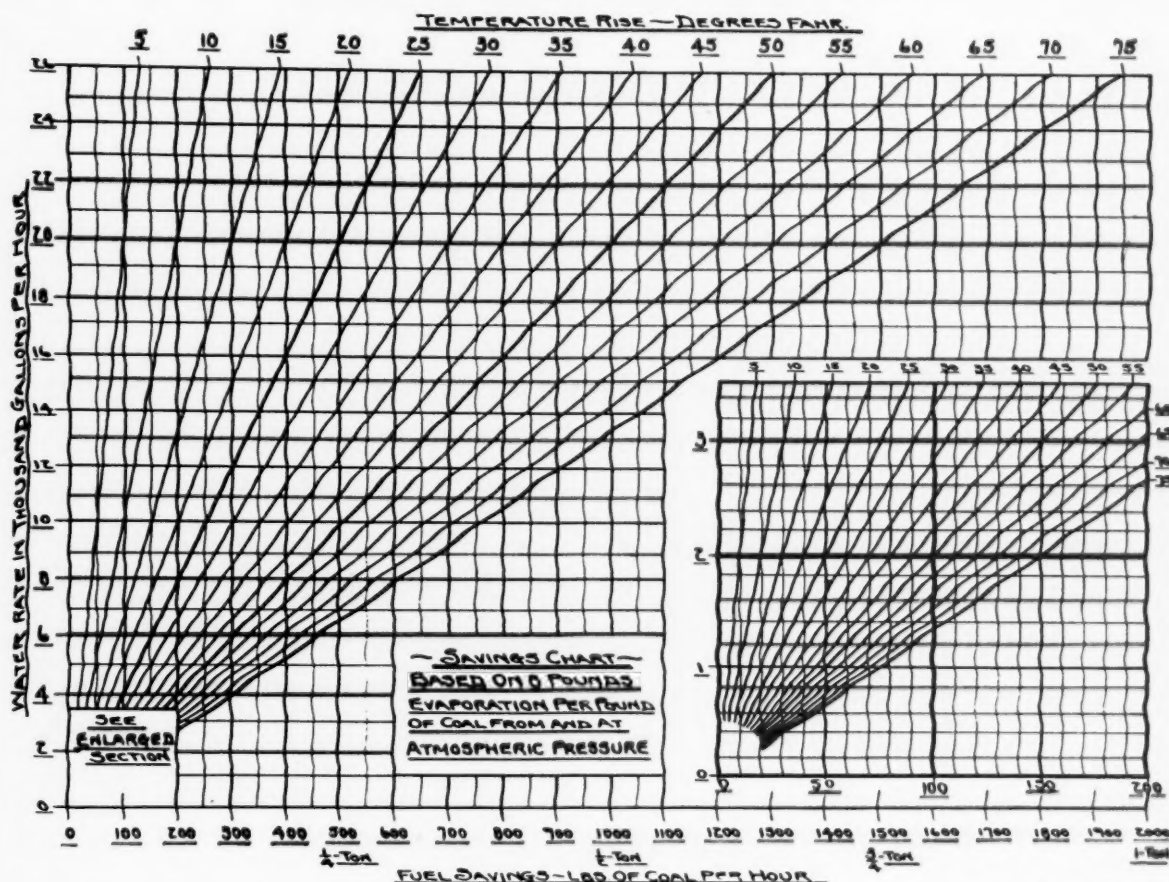
| HOSE I. D. | 1/4" | 5/16" | 3/8" | 1/2" | 5/8" | 3/4" | 1" | 1-1/4" |
|------------|--------|-------|--------|------|------|--------|-----|--------|
| A | 8" | 10" | 12" | 16" | 18" | 20" | 24" | 26" |
| B | 20" | 24" | 30" | 38" | 44" | 50" | 56" | 62" |
| C | 4-1/2" | 5" | 5-1/2" | 6" | 7" | 7-1/2" | 8" | 8" |
| L | 25" | 29" | 36" | 44" | 51" | 58" | 64" | 70" |

| HOSE I. D. | 1-1/2" | 2" | 2-1/2" | 3" | 3-1/2" | 4" | 5" | 6" |
|------------|--------|-----|--------|--------|--------|--------|--------|--------|
| A | 28" | 30" | 64" | 72" | 78" | 84" | 108" | 120" |
| B | 68" | 72" | 9' 6" | 10' 4" | 11' 4" | 12' 6" | 18 FT. | 18 FT. |
| C | 9" | 9" | 9" | 11" | - | - | - | - |
| L | 77" | 81" | 10 FT. | 11' 6" | - | - | - | - |



Source—Packless Metal Products Corp.

Fuel Savings Produced by Waste Water Heat Exchangers



Source: Whitlock Mfg. Co.

The graph plots fuel savings in pounds of coal per hour for waste water heat exchangers operating at various capacities and producing various degrees of temperature rise. From the water rate in thousands of gallons per hour at the left of the chart, read right to the slanting line marking the number of degrees temperature rise produced; read down to the bottom of the scale to find the approximate pounds of coal saved under the conditions assumed. For example, waste water heat exchanger taking 8,000 gallons of water an hour and raising the temperature 50 degrees F. will save 400 pounds of coal per hour under the conditions above. These figures are based on an assumption of eight pounds of water evaporated per hour per pound of coal; if the Btu content of the fuel or the efficiency of the boiler produces a higher evaporation rate, the saving in actual pounds of coal using the heat exchanger will be proportionally less.

Steam Temperatures at Various Pressures

| Lbs. Pressure Per Sq. Inch | Temperature °F.* | Lbs. Pressure Per Sq. Inch | Temperature °F.* |
|----------------------------|------------------|----------------------------|------------------|
| 0# | 212° | 65# | 312° |
| 5 | 227 | 70 | 316 |
| 10 | 239 | 75 | 320 |
| 15 | 250 | 80 | 324 |
| 20 | 259 | 85 | 328 |
| 25 | 267 | 90 | 331 |
| 30 | 274 | 95 | 335 |
| 35 | 281 | 100 | 338 |
| 40 | 287 | 105 | 341 |
| 45 | 292 | 110 | 345 |
| 50 | 298 | 115 | 348 |
| 55 | 303 | 120 | 351 |
| 60 | 307 | 125 | 353 |

* Fractional temperatures to nearest integer.

Water boils at 212 degrees Fahrenheit or 100 degrees Centigrade. As the steam begins to form in a closed container the pressure rises and the temperature of the steam increases. Temperature of saturated steam varies directly with the pressure in the boiler. A press taking

steam at 100 lbs. pressure will yield a surface temperature of 338 degrees Fahrenheit.

Sizes for Boiler Combustion Chambers

| Method of firing | B.t.u. per cubic foot | Approximate cubic feet required per hp. |
|------------------|-----------------------|---|
| Hand Stoker | 50,000 | 1 1/10 cubic feet |
| Oil | 45,000 | 1 cubic foot |
| | 30,000 | 1 1/2 cubic feet |
| Pulverized Coal | 20,000 | 2 1/2 cubic feet |
| Gas | 30-35,000 | 1 1/2 cubic feet |

In computing cubic contents of combustion chambers measure the depth to bridgeway for underfeed stoker and hand firing; the entire depth for pulverized coal, oil or gas firing and for spreaders or overfeed stokers. Width times height times depth will give the cubic contents. From the table, an oil-fired installation requires 1 1/2 cubic feet of combustion chamber per horsepower, thus a 50 hp. boiler should have about 75 cubic feet of combustion chamber.

Drycleaning Section

Synthetic Solvents

Each of the three synthetic fluids used in the drycleaning industry—carbon tetrachloride (including carbon tetrachloride-base blended fluids), trichlorethylene and perchlorethylene—has its own particular application.

Likewise, there are three main classes of synthetic drycleaning machines:

Washer-Cabinet-Drier Systems: Garments washed and extracted in same basket, removed from basket and hung in ventilated cabinet to dry.

Washer-Drier Systems: All washing, extracting, drying or deodorizing done in same basket. Solvent left in garments after extraction is not recovered.

Washer-Recovery Systems: Garments washed, extracted and dried in one basket. Solvent left in garments after extraction is recovered by recirculating air which is alternately heated and cooled.

Physical Properties

Physical and chemical properties of drycleaning solvents as they apply to design of drycleaning machine:

Washer: Rapid cleaning possible with chlorinated solvents because of their high solvent power for grease and rapid penetration rate.

Carbon tetrachloride and perchlorethylene—cleaning powers just about equal.

Trichlorethylene—most efficient fluid for soil removal.

Therefore, machine having large capacity per hour may be built around a relatively small basket by allowing a number of loads to be processed per hour.

Extractor: Difference in hold-up of solvent in garments after identical extraction conditions:

Carbon tetrachloride and perchlorethylene—no appreciable difference.

Trichlorethylene—slightly more recoverable by extraction.

Filter: Operation essentially same with any of the synthetic fluids; normal precoat and operating additions will work equally well with any of the three fluids under identical conditions.

A large item in solvent consumption is solvent left in discarded filter sludge, which accounts for approximately $\frac{1}{3}$ of solvent consumed in one washer-cabinet-drier machine.

Still: Three physical properties of the solvents have to be taken into account as regards the still—specific heat, boiling point, latent heat of vaporization. All three add up to heat input required to distill the solvent. The three solvents have approximately the same specific heat of around .2, and approximately the same latent heat of vaporization. The main difference is in the boiling point: carbon tetrachloride, 169.7 degrees F.; trichlorethylene, 188.4 degrees F.; perchlorethylene, 250.2 degrees F.

Carbon tetrachloride and trichlorethylene—may be distilled at low steam pressures, usually not in excess of 10 pounds per square inch gauge pressure.

Perchlorethylene—will require approximately 50 pounds. In some machines this factor rules out perchlorethylene, since still coils or jackets will not stand the higher pressure, or area of coils is not large enough to have sufficient heat input for distillation of this fluid.

Solvent Recovery: Vapor pressure exerted by the various fluids is greatest single factor affecting solvent cost. Vapor pressure determines how much fluid is lost in the drycleaning operation, also amount of solvent that may be recovered from garments after extraction.

Evaporation rate (taking ether as having a rating of 100):

Carbon tetrachloride—33
Trichlorethylene—28
Perchlorethylene—9

Physical Properties of Synthetic Solvents

| | Carbon Tetrachloride | Trichlorethylene | Perchlorethylene |
|--|---------------------------------|---------------------------------|--------------------------------|
| Chemical formula | C ₂ Cl ₄ | C ₂ HCl ₃ | C ₂ Cl ₄ |
| Boiling point, °F. | 169.7 | 188.4 | 250.2 |
| Latent heat of vaporization at boiling point, B.t.u./lb. | 84.2 | 103.0 | 90.0 |
| Specific heat, liquid | 0.205 | 0.225 | 0.205 |
| Viscosity, liquid (68° F.) cp. | 0.969 | 0.58 | 0.88 |
| Surface tension (in air) dynes/cm. | 25.4 (in nitrogen) at 77° F. | approx. 29 at 86° F. | 32.32 at 68° F. |
| Specific gravity (20°/4° C.) | 1.594 | 1.464 | 1.623 |
| Pounds per gallon (68° F.) | 13.30 | 12.30 (59° F.) | 13.55 |
| Vapor pressure, mm. Hg. (68° F.) | 91 | 58.5 | 14.2 |
| Evaporation rate (ether-100) | 33 | 28 | 9 |
| Flammability, Underwriters' Laboratories rating | 0 | 3 | 0 |

Solvent Costs: Only true basis for comparison is solvent cost per pound of garments cleaned. It matters little what is paid for a drum of solvent, but it does matter how much cleaning a drum of solvent will do.

In one popular washer-cabinet-drier machine, losses were determined, by extensive laboratory and field tests, to be distributed as follows:

| | Perchlor- ethylene | Carbon tetrachloride |
|---|-----------------------|-------------------------|
| Filter loss | 6.0 lbs. | 6.0 lbs. |
| Hold-up | 13.1 lbs. | 14.0 lbs. |
| Still residues | .4 lb. | .33 lb. |
| Evaporated loss | 3.5 lbs. | 9.87 lbs. |
| Total loss, solvent per 100 lbs. garments | 23.0 lbs. | 30.20 lbs. |

Taking a base price of 13 cents per pound for perchlorethylene and 10.5 cents per pound for carbon tetrachloride, this represents a cleaning cost of 2.99 cents per pound for perchlorethylene as against 3.17 cents for carbon tetrachloride. A comparison of the figures cited above shows that while perchlorethylene costs \$1.73 a gallon and carbon tetrachloride only \$1.40, high evaporation rate of carbon tetrachloride partially offsets higher cost per gallon of perchlorethylene.

How to Reduce Cleaning Costs

Hold-up of solvent in garments after extraction: Varies with efficiency of extractor, which is a function of the diameter of the extractor basket and speed of extractor. This factor is built into machine and cannot be varied.

Length of extraction time: Can be varied.

Example: Variation in amount of solvent left in clothes after extraction. Garments extracted were wool, extraction time seven minutes in all cases.

| Machine No. | Diameter of basket | Extraction speed | Solvent hold-up % |
|-------------|--------------------|------------------|-------------------|
| 1. | 27" | 900 | 12.5 |
| 2. | 30" | 860 | 12.5 |
| 3. | 34" | 810 | 13.5 |
| 4. | 30" | 750 | 14.5 |
| 5. | 32" | 640 | 16.0 |
| 6. | 24" | 550 | 22.0 |

Recovery of solvent left in garments after extraction in separate recovery-drier will reclaim 90 percent of hold-up solvent. Will reduce cleaning cost to nearly one cent a pound with perchlorethylene, most completely recoverable solvent.

Filter loss: Much of this loss may be recovered by back-washing the sludge and steam-stripping when perchlorethylene is used.

Evaporation losses in operation: Minimized by using perchlorethylene.

By carrying out each of these solvent-saving steps, the solvent cost of cleaning with perchlorethylene may be held to .75 cents to one cent per pound, as compared to 1.75 cents to 3.5 cents per pound for carbon tetrachloride, depending on efficiency of operation.

These studies of solvent costs have been limited to perchlorethylene and carbon tetrachloride, since these two solvents afford the greatest contrast.

Chief advantage of trichlorethylene: Lends itself to construction of lower-priced machine from low-cost materials of construction.

Trichlorethylene should only be used in machines especially designed for it as this solvent has a tendency to bleed fugitive cellulose acetate dyes when the temperature of the solvent exceeds 80 degrees F.

Source—E. I. du Pont de Nemours & Company, Electrochemicals Department

Petroleum Solvents

Standards for petroleum distillates used in drycleaning cover physical and chemical properties, methods of testing, certification of quality.

Standards for Stoddard Solvent

(Commercial Standard CS 3-40):

1. **Material:** Stoddard solvent shall be a petroleum distillate.

2. **Appearance:** It shall be clear and free from suspended matter and undissolved water.

3. **Color:** It shall be water-white or not darker than 21 by Sayboldt chromometer.

4. **Odor:** Solvent shall be free from rancid and objectionable odors.

5. **Corrosive Properties:** Copper shall show not more than extremely slight discoloration when submerged in solvent for three hours at 122 degrees.

6. **Doctor Test:** Solvent should react negatively.

7. **Sulphuric Acid Absorption Test:** Not more than 5 percent of the solvent should be absorbed by CP sulphuric acid (93.2 percent).

8. **Flash Point:** Shall not be lower than 100 degrees.

9. **Distillation Range:** When a sample is distilled according to specifications, not less than 50 percent should be recovered when the thermometer reads 350 degrees F. and not less than 90 percent when the thermometer reads 375 degrees F. and the end point shall not be higher than 410 degrees F.

10. **Residue:** When a sample is distilled the residue shall not be more than 1.5 percent.

11. **Acidity:** Residue from distillation shall not show an acid reaction.

A petroleum solvent meeting the above specifications is classified by Underwriters' Laboratories, Inc., in a class with kerosene in respect to fire hazard.

Standards for 140 F Solvent

The 140 F solvent has been developed in an effort to produce a workable solvent that would have a flash point higher than that set for Stoddard solvent and would show a high degree of safety in regard to fire hazard.

The main specification required by the Underwriters' Laboratories for 140 F solvent is that the flash point be a minimum of 138.2 degrees F. According to the Underwriters' listings this type of solvent is placed in a class between paraffin oil and kerosene.

The Stoddard solvent specifications are concerned only with the solvent and do not require any designated type of equipment.

In the use of 140 F solvent, specifications have also been set up in respect to the type of equipment in which it should be used for maximum safety. In some cases the equipment approved has been tumblers and drying cabinets. Some complete drying units have been approved for the use of 140 F solvent.

Approved drycleaning systems together with particular listed drying cabinets or tumblers are suitable only for use with listed cleaning liquids classified with respect to fire hazard and complying with the following specifications:

1. **Flash Point (closed cup):** Not lower than 138.2 degrees F. (Continued on following page)

(Continued from preceding page)

2. Initial Boiling Point: Not lower than 357.8° F.
3. Ignition Temperature: Not lower than 453.3° F.
4. Lower Limit of Explosion Range: Not less than .8 percent by volume in air at initial temperature of 302 degrees F.
5. Spontaneous Heating: The cleaning material shall not heat spontaneously.

The color, odor, corrosion and doctor tests are the

same as those commonly used for Stoddard solvent.

Along with the use of approved systems, the installation should be set up in accordance with the standards of the National Board of Fire Underwriters for safeguarding drycleaning and dyeing plants. Authorized inspectors should be consulted before installation.

The use of either of these solvents is regulated by the state fire marshal's office and the regulations vary considerably from one state to another.

Source—Anderson-Prichard Oil Corporation

Miscellaneous

Pumps for Filter Circulation

Following chart shows pump size recommended for each size of filter and speed at which each should operate to produce intended flow rate

| Filter Gallons Per Hour | Size of Suction and Discharge Pipes | R.P.M. Pump Pulley | Diam- eter Pump Pulley | Gallons Per Revo- lution |
|-------------------------------|--|--------------------------|---------------------------------|-----------------------------------|
| 400 | 1" | 450 | 4 3/4" | 0.015 |
| 600 | 1" | 650 | 4 3/4" | 0.015 |
| 1000 | 1 1/4" | 375 | 7" | 0.044 |
| 1200 | 1 1/2" | 230 | 10" | 0.087 |
| 2000 | 2" | 265 | 10" | 0.125 |
| 3200 | 2" | 235 | 12" | 0.235 |
| 5000 | 2" | 350 | 12" | 0.23 |
| 8000 | 3" | 250 | 24" | 0.53 |

Source—Viking Pump Co.

Capacities of Clarifying Tanks

To calculate the number of gallons in the cylinder of a clarifying tank use the following data:

$$3.14 \times \text{radius}^2 \times \text{height} = \text{cubic inches in cylinder}$$

$$231 \text{ cubic inches} = 1 \text{ gallon}$$

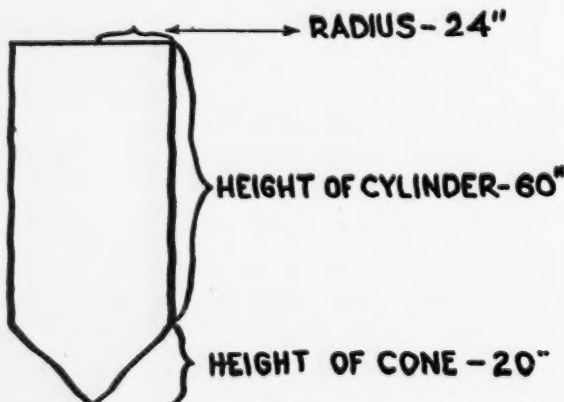
$$\text{cubic inches} \div 231 = \text{gallons in cylinder}$$

Given a clarifying tank cylinder with a radius of 24 inches and a height of 60 inches:

$$\frac{3.14 \times 24 \times 24 \times 60}{231} = 470 \text{ gallons}$$

To calculate the number of gallons in the cone of a tank use the following formula:

$$\frac{3.14 \times \text{radius}^2 \times \text{height}}{3 \times 231} = \text{gallons in the cone}$$



To find the capacity of a tank cone with a radius of 24 inches and a height of 20 inches:

$$\frac{3.14 \times 24 \times 24 \times 20}{3 \times 231} = 52 \text{ gallons}$$

Capacities of Drycleaning Washers

It is impossible to quote precise washer loads to fit all types of equipment and diversified local conditions. The following capacities are average figures based on the recommendations of various washer manufacturers, detergent producers and drycleaning supply houses

| Size | Wood, lbs. | Metal, lbs. |
|-----------|------------|-------------|
| 30 x 30" | 30 | — |
| 30 x 40" | 40 | 50 |
| 30 x 48" | 50 | 63 |
| 36 x 48" | 67 | 85 |
| 36 x 54" | 78 | 95 |
| 36 x 64" | 96 | 112 |
| 36 x 72" | 103 | 117 |
| 42 x 54" | 107 | 124 |
| 42 x 64" | 128 | 154 |
| 42 x 72" | 139 | 168 |
| 42 x 84" | 167 | 198 |
| 42 x 96" | 191 | 226 |
| 42 x 120" | 226 | 250 |

Extractor Speeds

The revolutions per minute given in the table below are recommended by most manufacturers for extractors of various sizes

| Diameter | R.P.M. |
|----------|--------|
| 20" | 1360 |
| 26" | 1260 |
| 28" | 1150 |
| 30" | 1110 |
| 40" | 900 |
| 48" | 725 |
| 60" | 610 |

Recommended Drycleaning Washer Speeds

Drycleaning washers should travel between 160 and 180 linear feet per minute depending upon rib height and type of clothing being cleaned. Use the slower speeds for silks washed in high-ribbed machines. Most manufacturers recommend the following revolutions per minute as speeds for drycleaning washers of various diameters

| Diameter | R.P.M. |
|----------|--------|
| 30" | 20-30 |
| 36" | 17-19 |
| 42" | 15-16 |

Finishing Hints

Steam Line Size

| Number of Presses | Size Steam Line |
|-------------------|-----------------|
| 1-2 | 1/2 inch |
| 3-4 | 3/4 inch |
| 5-6 | 1 inch |
| 6-10 | 1 1/4 inches |
| 10-14 | 1 1/2 inches |
| 14-25 | 2 inches |

Maximum Temperatures for Various Fabrics

| Fabric | Temperature |
|--------|--------------------|
| Rayon | 280 to 300 deg. F. |
| Nylon | 280 to 300 deg. F. |
| Silk | 320 to 340 deg. F. |
| Wool | 350 to 370 deg. F. |
| Cotton | 400 to 430 deg. F. |
| Linen | 450 to 500 deg. F. |

Spotting Suggestions

1. Keep tight corks or covers on all spotting agents. Only solvents safe for use on all fabrics should be kept conveniently at hand.

2. Remember that fabrics are most sensitive when wet. Don't rub a wet fabric with a chamois skin, turkish towel or brush. Use a tamping action. Scratching a wet fabric with the fingernail may cause irreparable damage.

3. After use, spotting brushes should be hung up to dry or left face down so the water drains from the bristles. Soaking swells fibers and splits the wood base.

4. Keep spotting brushes in shape. Uneven bristles cause inaccurate application and may hurt the fabric.

5. Gouging with the point of the spatula will lead to damage claims. Use with an easy tamping action.

6. On cellulose acetate fabrics always make a color-fastness test on an unexposed portion of the garment to discover whether certain dangerous spotting agents, such as alcohol, may be employed.

7. Use a dropper to apply spotting agents. Frequently, a few drops will do the job; when small amounts are used, removal of the agent is simplified.

8. Don't use hot soap solutions on fugitive or weak colors.

9. Before resorting to wetcleaning a garment consider handbrushing with dry solvent and soap.

10. When applying a digester to an albuminous stain make certain all the soap, alkali or acid is thoroughly rinsed out.

11. Remove metal trimmings, hooks, eyes, metallic buttons, pins or zippers before bleaching. Use stone, wood or earthenware containers for the bleach bath. Crowding garments in the tub is one of the major causes of uneven bleaching.

12. In employing a steam gun keep the jet moving at all times. If the gun is held perpendicular to the fabric, a hole will result. In removing food stains, flick at the spot, returning to it again and again.

13. Remove all spotting agents from the fabric. If they are dry, like paint removers, flush them out with a dry solvent. If they are wet, like ammonia or dilute

acetic acid, flush them out with water. If they are soaps, flush or rinse them out.

14. In drying garments circulation of air is more important than high temperatures.

15. Know when to quit. In cases where it is impossible to remove the stain without danger to the fabric, it is better to leave the spot than to ruin the garment.

Source—Spotting Manual

Stains to Be Prespotted

Stains which are set by the heat encountered in drycleaning and pressing should be recognized readily by markers and spotters. The following stains should always be removed in prespotting.

Blood: A stain red to brown in color, both absorbed and built-up, usually found in the front of garments.

Coca-Cola: Entirely absorbed, may be very faint before going through the drycleaning process. In some cases it will spread over wide areas of silk and woolen garments.

Cod Liver Oil: Yellow in color, absorbed, often long and narrow following the filler threads. When oxidized will have a slight rancid odor.

Coffee: Color will vary from light brown to dark brown depending on the amount of cream in the coffee; entirely absorbed. Stain will tend to spread in wide blotches with irregular edges.

Pigment Dyes: A common stain on the seat and shoulders of a garment, usually picked up from leather upholstery.

Perfume: May be identified by odor and location on front of garments. In pronounced cases may leave a round or circular stain, light in center with the dissolved dyestuffs pushed out to the circumference in a dark, heavy ring.

Road Oil, Tar, Asphalt: Black, built-up stain with a rough, uneven surface and irregular edges. If fresh, has a distinctive odor.

Syrup: Sticky when wet, often identifiable by odor.

Tea: Similar to coffee, but more tenacious.

Wage Incentive Data

Production Standards

| Pounds Per Man-Hour | | | | | | | | | | |
|---------------------|-------|------|-------|------|------|------|------|------|------|------|
| | A | B | C | D | E | F | G | H | I | J |
| Marking | 481.6 | .... | 69.3 | 96.8 | 50.0 | 44.4 | 52.9 | 27.3 | 59.1 | 51.7 |
| Cleaning | 72.9 | 76.0 | 37.7 | 40.4 | 14.0 | 26.0 | 30.4 | 28.0 | 20.3 | 26.8 |
| Finishing | 30.2 | 34.5 | 15.5 | 14.0 | 10.9 | 9.8 | 11.0 | 9.7 | 8.1 | 6.0 |
| Packing | 291.4 | 75.4 | 100.3 | 42.1 | 37.6 | 42.0 | 27.0 | 37.3 | 41.6 | 37.0 |

| Pieces Per Man-Hour | | | | | | | | | | |
|---------------------|-------|------|------|------|------|------|------|------|------|------|
| | A | B | C | D | E | F | G | H | I | J |
| Marking | 385.3 | .... | 60.2 | 67.6 | 41.4 | 39.4 | 40.2 | 23.1 | 57.7 | 49.6 |
| Cleaning | 58.4 | 54.8 | 32.8 | 28.2 | 11.6 | 23.1 | 23.1 | 23.4 | 19.9 | 25.6 |
| Finishing | 24.1 | 24.8 | 13.5 | 9.8 | 8.3 | 8.7 | 8.4 | 8.1 | 7.9 | 5.7 |
| Packing | 233.1 | 54.4 | 87.1 | 29.4 | 31.2 | 37.1 | 20.3 | 31.6 | 40.7 | 35.5 |

Definitive production standards applicable to any cleaning plant cannot be given for many reasons such as constant changes in methods and equipment, variations in quality standards, job doubling up, especially in small plants. Figures above are from 10 well-managed plants ranging from very low to very high production rates, \$5,000 to \$45,000 weekly volume, 39-cent to \$1.35 prices. Spotting is not included because widest variation in standards is found in that department.

High-quality operators should equal lowest output shown; mass-production plants should aim at the top

Southern Service Production Standards

| Production Job | Pieces Per Man-Hour |
|-----------------------------------|---------------------|
| Pressing trousers | 40 |
| Pressing men's coats | 35 |
| Pressing long coats* | 20 |
| Finishing long coats by steam-air | 40 |
| Pressing skirts** | 30 |
| Marking | 150 |
| Assembling | 125 |
| Pressing mixed wools | 20 |
| Pressing silk dresses*** | 12 |

*Men's and women's topcoats and lightweight fall and winter coats.

**Without bodices.

***Plain and fancy as they come.

Source—Claude Lucas

Standards of Southern Service Company of California prove that small plants can achieve high production. Prewar volume of this company's plants ranged from about \$800 to \$5,000 per week, average about \$1,500. Smallest in group had same standards as largest

Fur Section

Pre-Cleaning

All coats accepted for fur cleaning should be closely inspected for rips, tears, and fragile or worn pelts. Any torn or worn seams should be repaired at this point of the operation. Take out any loose linings to prevent the cleaning compound from working under them. Moth damage, shedding or cracked hairs, and fugitive dyes (such as are sometimes found on blue and platinum fox) must be reckoned with during this first operation.

After inspection, each coat should be beaten and shaken to remove loose dust and hair, moths and larvae, as well as to fluff up the matted hair. This operation economizes on the cleaning compound because there is less loose dirt left in the coat for it to absorb, and also cuts down drumming time. Beating may be quickly accomplished in a vibrating chamber.

Sponge the lining of the garment with a cleaning solvent. This solvent must have properties that remove dirt, grease, and most ordinary spots. Pour one pint into a shallow pan and then apply to the lining and rub vigorously with a sponge or brush. Where you have a concentration of dirt, wet down generously with solvent and then use a brush to work this dirt loose. About three or four percent of all linings are badly soiled and will have to be removed and drycleaned.

Capacities of Fumigation Cabinets

| Inside Area (Cubic Feet) | Capacity (Number Fur Coats) |
|-----------------------------|--------------------------------|
| 141 | 40 |
| 219 | 70 |
| 297 | 100 |
| 375 | 130 |
| 453 | 160 |
| 531 | 190 |
| 639 | 220 |
| 717 | 250 |

Drumming and Caging

Put one to five pounds of absorbent into the drum for each coat to be cleaned. Also add one pint of cleaning solvent and one-half pint of water-base cleaning fluid for each coat. Absorbent materials and cleaning fluids should be completely mixed before placing coats in drum. Place coats in drum and revolve for approximately one-half hour. This time may vary, depending on the coat's fragility.

After drumming, garments are placed in the cage and tumbled an average of 45 minutes. After caging, the garments are placed in the suction chamber of the vibrating table to remove any excess absorbent material. The garment is then placed on a work table and both the lining and fur are blown with compressed air. If cleaning material has worked under the lining, open the seams and blow it out, but to avoid excess labor, keep seam ripping to a minimum. Use a mechanical beater in conjunction with compressed air to remove lint from curly fur such as Persian lamb.

Fur Cleaning Classification

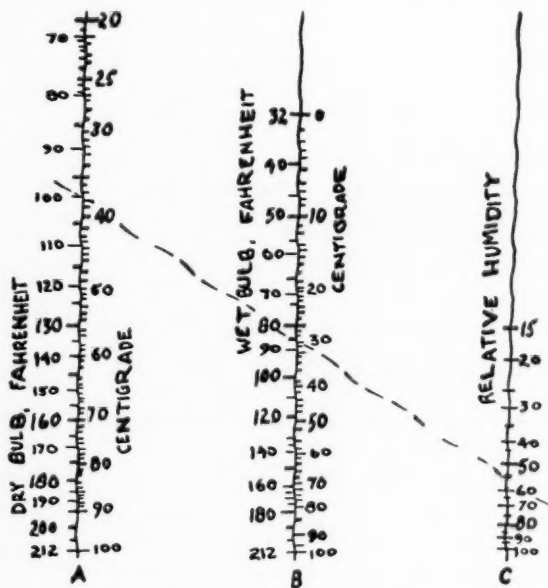
| Fur | Drumming Time | Caging Time |
|--------------------|---------------------------|--|
| WATER RODENTS | | |
| Beaver | 1 hour | 1 hour |
| Nutria | 1 hour | 1 hour |
| Hudson Seal | 30 to 45 minutes | 25 to 30 minutes |
| Muskral | 30 to 40 minutes | 15 to 20 minutes |
| LAND RODENTS | | |
| Rabbit | | |
| Dyed Coney | | |
| Lapin | 30 to 45 minutes | 30 to 45 minutes |
| Northern Seal | | |
| Beaverette | | |
| Marmot | | |
| THE CAT FAMILY | | |
| Leopard | | |
| Ocelot | | |
| Leopard Cat | 30 to 40 minutes | 25 to 30 minutes |
| Lynx | | |
| Civet Cat | | |
| THE DOG FAMILY | | |
| Fox | | These furs usually used for scarfs. To prevent breakage of buckles and eyes, do not cage |
| Wolf | 45 to 60 minutes (bagged) | |
| Coyote | | |
| Chinese Dog | | |
| THE BEAR FAMILY | | |
| Raccoon | | |
| Bear | 1 hour | 1 hour |
| THE WEASEL FAMILY | | |
| Mink | 30 to 40 minutes | 30 to 40 minutes |
| Kolinsky | 30 to 40 minutes | 30 to 40 minutes |
| Fitch | 30 to 40 minutes | 30 to 40 minutes |
| Fisher | 30 to 40 minutes | 30 to 40 minutes |
| Weasel | 30 to 40 minutes | 30 to 40 minutes |
| Otter | 45 minutes | 30 minutes |
| Skunk | 45 minutes | 30 minutes |
| POUCHED ANIMALS | | |
| American Opossum | 45 minutes | 45 minutes |
| Australian Opossum | | |
| CURLY FURS | | |
| Russian Caracul | | |
| Black Caracul | | |
| Chekiang Caracul | 20 to 30 minutes | 5 to 10 minutes |
| Persian Lamb | | |
| Krimmer Lamb | | |
| Krimmer | | |
| HOOFED ANIMALS | | |
| Pony | 35 to 45 minutes | 35 to 45 minutes |
| Kidskin | 20 to 30 minutes | 10 minutes |
| ALASKA SEAL | | |
| Safari Seal | | |
| Black Seal | 35 to 45 minutes | 35 to 45 minutes |
| DELICATE FURS | | |
| Galyak | | Shake out by hand or with a suction work table |
| Chinchilla | | |
| Mole | Hand-clean | |
| Squirrel | | |
| Broadtail | | |
| Barunduki | | |

Source—Walter Haertel Co.

Humidity in Storage Vaults

When there is a relative humidity of 65 percent or more in a storage vault, every article in the vault is in danger of being ruined by mildew. Mildew will grow in furs, rugs, and all cloth garments. Humidity of 52-53 percent is plenty for most situations. It is not generally known, but excessive humidity can spoil the fit of a fur coat, even if there is not sufficient humidity to cause mildew to grow. When humidity reaches a certain maximum, skins become soft and pliable and subject to stretching at the shoulders.

Gauging Relative Humidity



The accompanying chart makes it possible to gauge relative humidity quickly. Run a straight line through the dry bulb temperature, column A, and the wet bulb temperature, column B. The relative humidity is given at the intersection with column C. Thus, if the dry bulb temperature is 100 degrees F. and the wet bulb temperature 85 degrees F., the dotted line drawn across the chart shows that the relative humidity, column C, is 54 percent.

The chart is based on a formula developed by the U. S. Bureau of Standards. Temperatures are given in both Fahrenheit and Centigrade.

Glazing

Fur glazing is to fur cleaning what pressing is to drycleaning. A fur garment may be cleaned thoroughly, and yet will not look well until it has been glazed. Glazing may be accomplished either through the use of solutions or through mechanical means. Solutions used include potassium permanganate, Chinese elm bark soakings, alcohol, plain water, etc.

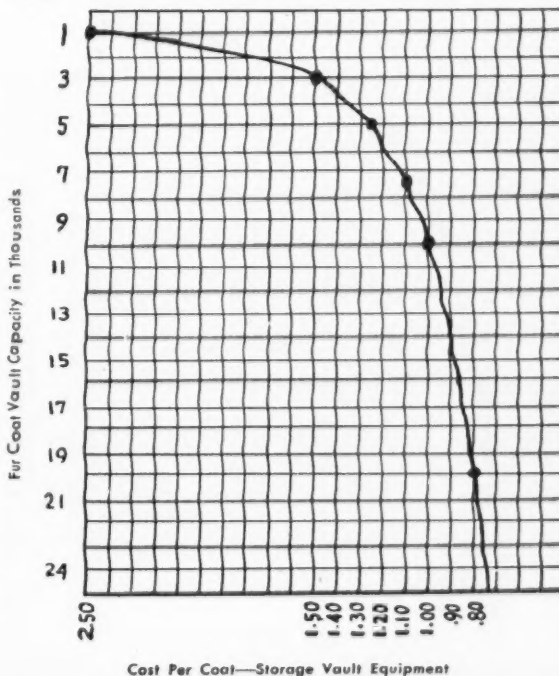
In recent years the use of steam irons, steam guns, and rotary irons has become popular for this purpose, and usually do an excellent job with minimum labor. The method used, of course, must be suited to the particular fur being glazed. The steam iron method is limited to certain types, such as muskrat, mink, and coney. Beaver or mouton types and curly furs should not be steamed. The rotary iron is a grooved, revolving, heated iron which, when properly applied to fur, will straighten out the hair and produce a high sheen and silkiness.

Glazing Chart

| Fur | Rotary Iron | Steam Iron |
|---------------------|-------------|------------|
| Beaver | • | |
| Caracul | | • |
| Civet Cat | | • |
| Coney | • | • |
| Ermine | | • |
| Fitch | • | • |
| Fox | | • |
| Guanaco | • | |
| Lamb, Persian | | • |
| Leopard | • | |
| Mink | • | • |
| Mink, Jap | • | • |
| Mink, Side | • | • |
| Mouton | • | • |
| Muskrat | • | • |
| Nutria | • | |
| Ocelot | • | |
| Opossum, American | | • |
| Opossum, Australian | • | |
| Otter, Plucked | • | |
| Persian Paw | | • |
| Raccoon | | • |
| Raccoon, Sheared | • | |
| Seal, Alaska | • | |
| Seal, Hair | • | |
| Seal, Hudson | • | |
| Seal, Northern | • | |
| Seal, Tropical | | |
| Skunk | • | • |
| Squirrel | • | • |
| Wolf | • | • |
| Wolverine | • | • |

Source—Walter Haertel Co.

Approximate Cost of Vault Equipment



Source—Reliable Fur Storage Equipment Co., Division of Reliable Machine Works, Inc.

Break-even Charts

The combination of increasing costs, increasing competition, and decreasing profits has focused attention on the need for controls of costs and profits in laundry accounting procedure. Break-even charts provide a means of visualizing the effect of changes of volume or prices, and use of this excellent management tool has been endorsed by firms specializing in this type of work.*

Once you have accumulated certain basic information on your plant, it is not difficult to construct your own break-even chart. You must know:

1. Physical capacity of your plant in pounds, bundles, or percentage of capacity.
2. Potential sales income at capacity operation.
3. Amount of fixed costs (costs which do not fluctuate with volume such as rent, insurance, depreciation, taxes, executive, supervisors' and office salaries, etc.).
4. The ratio of variable costs (costs which vary according to the volume being processed) to sales income, expressed as a percentage. The services of a professional accountant may be helpful in deciding which costs are variable and which are fixed.

Chart No. 1 below is a break-even chart of a typical laundry. The chart was prepared as follows: It was figured that the plant was operating at 80 percent of capacity, and its weekly sales were running at \$4,000 per week. Therefore, if the plant were to be operated at capacity, sales would run \$5,000 per week. Fixed costs were figured at \$1,250 per week, and variable costs were calculated at 60 percent of weekly sales.

A square was laid out on cross-section paper with ten spaces across the bottom to represent capacity of zero to 100 percent, and with ten spaces running up the left side of the square representing weekly dollar sales from zero to \$5,000. Vertical and horizontal lines were drawn from the space marks to form a graph.

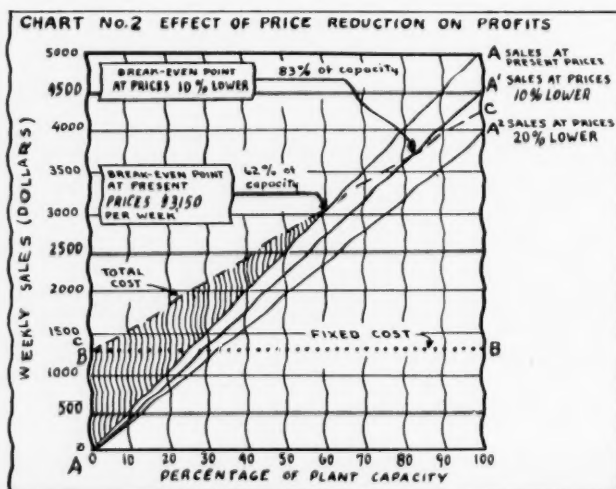
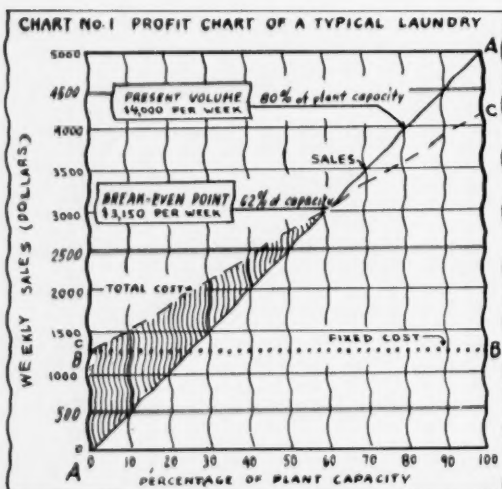
The first line drawn was A—A, representing total sales. The line was drawn diagonally across the graph so that any given amount of production could be trans-

lated into sales at the intersection of the vertical and horizontal lines. Then line B—B was drawn straight across the graph at a point indicating \$1,250 of fixed costs. Fixed costs would remain constant, of course, regardless of the volume of production or sales.

The next line to be plotted was that representing total cost, which is indicated on Chart No. 1 by line C—C. At zero production, the plant still has to pay its fixed costs, \$1,250. Therefore, a line indicating total cost would have to start at this point. As variable costs amounted, in this case, to 60 percent of sales, they would total \$3,000 at 100 percent capacity or at \$5,000 weekly sales. Accordingly, at 100 percent capacity, total cost amounted to \$3,000 (variable costs) plus \$1,250 (fixed costs), or \$4,250. A point equivalent to this total was, therefore, marked on the 100 percent of capacity line. The total cost line, C—C, was then drawn to connect this point and the \$1,250 mark on the zero capacity line.

As the break-even point must be the point where total costs are matched by sales income, the intersection of line A—A (sales) and line C—C (total cost) is the break-even point for this plant. This point was found to be \$3,150 per week. The shaded area below the break-even point indicates loss, and the space between the cost and sales lines above the break-even point represents profit—increasing as plant capacity is approached. Present sales of the plant were stated as \$4,000, so its profit was \$350 per week.

Chart 2 indicates the effects of 10 and 20 percent price reductions. Total costs (except for a slight reduction in routemen's commissions) remain constant. Line A—A' represents a drop of 10 percent in sales income, and indicates that physical volume must be increased from 62 percent to 83 percent, and sales must be increased from \$3,150 to \$3,735 in order to break even. If prices were lowered 20 percent, income would be below the total cost line at plant capacity and the plant could not possibly break even unless capacity were increased or costs substantially reduced.



* This article is based on charts and information provided through courtesy of John Carruthers & Co., Boston, Mass.

PROGRAM

66th Annual Convention and Exhibit
American Institute of Laundering
Los Angeles, California
October 9-11, 1953

Business sessions will be held each morning at the Biltmore Hotel, while the exhibits will be open each afternoon at the Shrine Convention Hall from 12:00 noon to 6:00 p.m.

FRIDAY, OCTOBER 9

9:30 a.m. Main Ballroom, Biltmore Hotel

Call to Order

Edwin W. Pearce presiding, president, American Institute of Laundering, Columbia Laundry, Greensboro, North Carolina

Film: "Credit—Man's Confidence in Man," produced by Wilding Picture Productions, Inc., for Dun and Bradstreet, Inc.

Invocation: Dr. J. Richard Sneed, First Methodist Church, Los Angeles

Singing of "America" and "God Save the Queen"

Greeting: The Honorable Norris Poulson, Mayor, City of Los Angeles

Introduction of President Edwin W. Pearce by AIL Director G. Louis Dodge, District 4, Dodge Laundry and Linen Supply Co., Fresno, Cal.

Introduction of members of board of directors

Talk: "Laundry Management of Today," Grenville Whyte, president, Southern Service Company, Pomona, Cal.

Talk: "What the Public Wants from Us," William E. Mercer, director of AIL sales and advertising, based on the Fourth Biennial Institute and Procter and Gamble Company Family Market Survey. The survey presentation will be augmented by a slide film and cartoons drawn by Lou Bellew, STARCHROOM LAUNDRY JOURNAL

Slide Film: "AIL in 3-D," a presentation in color of the facilities of the American Institute of Laundering

12:00 noon Exhibits will be open at the Shrine Convention Hall until 6:00 p.m.

1:00 p.m. Women's luncheon and style show, Golden State Room, Statler Hotel

4:00 p.m. AIL Alumni Club business meeting, Conference Room 5, Biltmore Hotel

5:30 p.m. AIL Alumni Club reception, Conference Room 2, Biltmore Hotel

8:00 p.m. Football game: University of Wisconsin vs. UCLA. Tickets may be procured from athletic department ticket offices of either school

9:30 p.m. Annual dance and entertainment, Biltmore Hotel

SATURDAY, OCTOBER 10

9:30 a.m. Main Ballroom, Biltmore Hotel

Denys Slater presiding, director, District 3, Fishburn Oriental Dyeing and Dry Cleaning Co., Dallas, Texas

Film: "What Makes Us Tick," produced by the New York Stock Exchange

Talk: "Laundry Personnel Relations," Hugh R. Stephen, vice-president, New Method Laundries, Ltd., Victoria, British Columbia, Canada

Slide Film: "Every Day Is Monday," AIL colored slide film presentation produced by Wilding Picture Productions, Inc.

Talk: "Cast Your Bread Upon the Waters," Jack A. Landale, president and general manager, Colonial Textile Service, San Diego, Cal.

Talk: "The Place of the Neighborhood Laundry in Our Business," J. Donald Reisser, west coast district manager, AIL, Inc., Los Angeles, Cal.

10:00 a.m. Women's combination shopping tour, luncheon at the Beverly Wilshire Hotel and tour of the movie stars' homes

12:00 noon Exhibits will be open at the Shrine Convention Hall until 6:00 p.m.

5:00 p.m. Cocktail party: Pi Chapter of the National Institute of Drycleaning Alumni Society, Conference Room 1, Biltmore Hotel

6:30 p.m. Reception and dinner: AIL Past Presidents and Directors Club, Cleveland and Mission Rooms, Statler Hotel

SUNDAY, OCTOBER 11

9:30 a.m.

Main Ballroom, Biltmore Hotel

Albert Johnson presiding, general manager, American Institute of Laundering, Joliet, Ill.

Talk: "First SELL Them . . . Then KEEP Them," Sam H. Millman, Silver, Millman and Company, Chicago, Ill.

Slide Film: "Every Day Is Monday," repeat performance

Presentation of Length-of-Service Award to Herbert Kugel, AIL-ICATA, convention exhibit manager

Presentation of advertising awards to the 1953 contest winners by George H. Isaacson, director of AIL service departments

Talk: "Store-Laundry Operations in Texas," A. C. Skinner, Jr., president, Oriental Laundry and Cleaners, Corpus Christi, Texas

Talk: "Battle of the Fibers," George H. Johnson, vice-president, American Institute of Laundering

12:00 noon Exhibits will be open at the Shrine Convention Hall until 6:00 p.m.

1:00 p.m. Luncheon, boards of directors, AIL, Laundry and Cleaners Allied Trades Association, laundry and Dry Cleaners Machinery Manufacturers Association, Conference Room 2, Biltmore Hotel

PULL OUT



LIST OF EXHIBITORS

| EXHIBITOR | BOOTH NO. |
|--|-----------|
| Addressograph-Multigraph Corp., 1200 Babbitt Rd., Cleveland, Ohio | 510, 511 |
| Amber Mfg. Co., 607 S. Union Ave., Los Angeles, Cal. | 413 |
| American Associated Companies, P. O. Box 4056, Atlanta 2, Ga. | 645 |
| American Laundry Digest, 21 W. Huron St., Chicago 10, Ill. | 633 |
| American Laundry Digest, 21 W. Huron St., Chicago 125, 126 | |
| Glenn L. Anderson, 670 Young St., Tanawanda, N. Y. | 414 |
| Armstrong Machine Works, 816 Maple St., Three Rivers, Mich. | 539 |
| Arrow Mfg. Co., 2924 Terrace St., Kansas City, Mo. | 327 |
| Automatic Launderer and Cleaner, 703 Spring St., N. W., Atlanta, Ga. | 506 |
| Benwall Mfg. Co., Inc., 2859 Atlantic Ave., Brooklyn, N. Y. | 637 |
| G. H. Bishop Co., 621 S. Kolmar Ave., Chicago 24, Ill. | 100, 101 |
| Back Laundry Machine Co., Factories Bldg., Toledo, Ohio | 428 |
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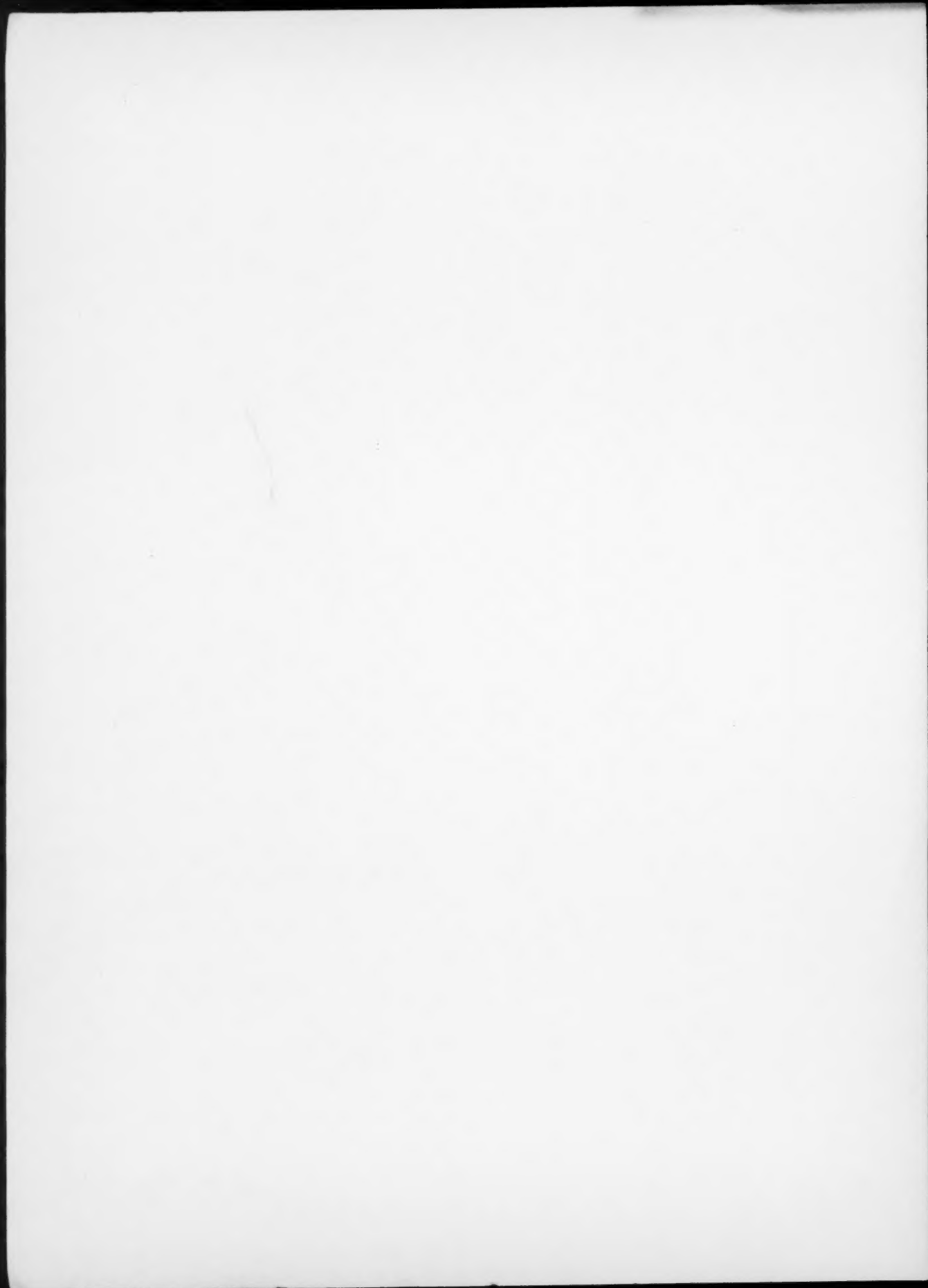
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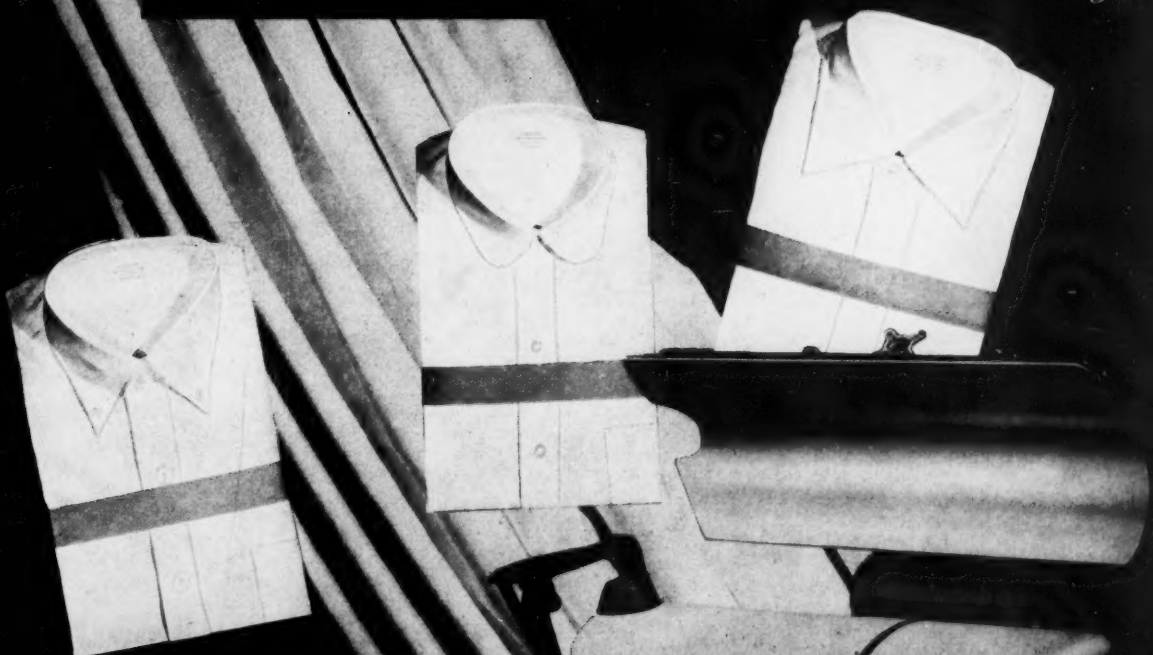


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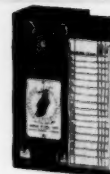
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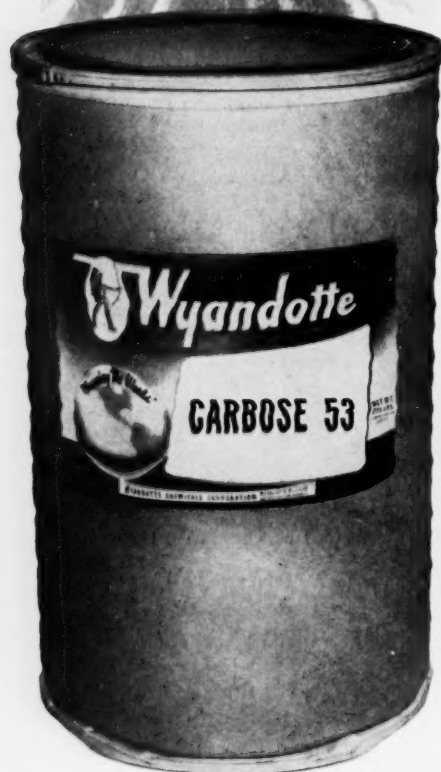


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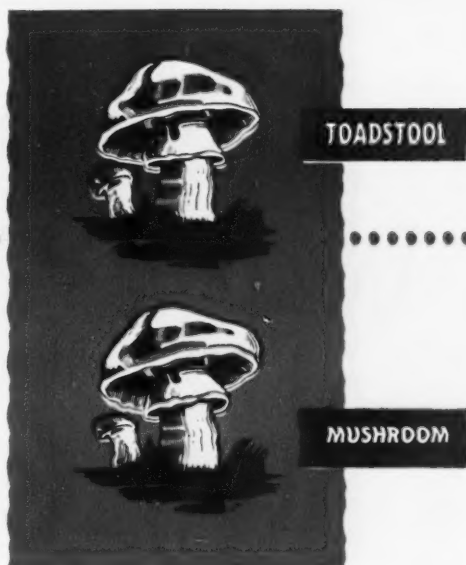
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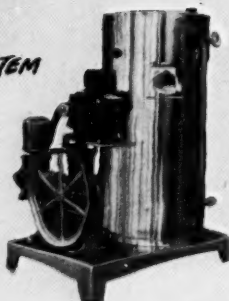
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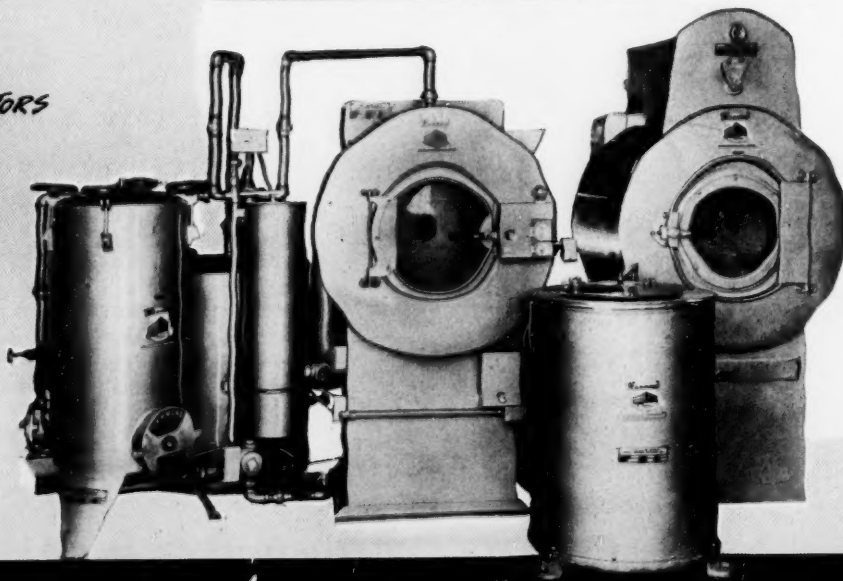


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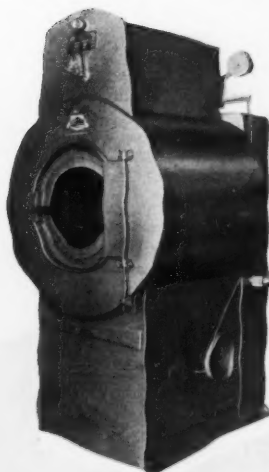
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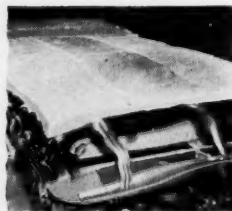
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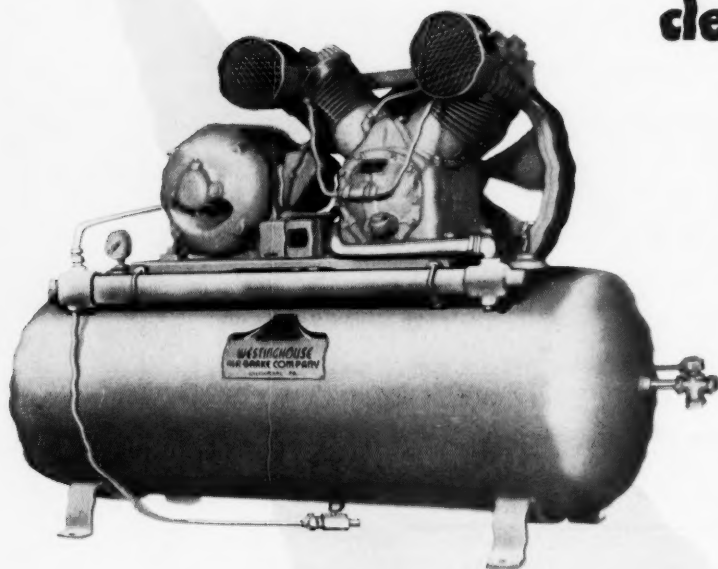
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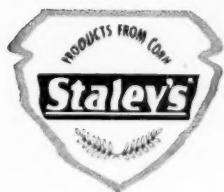
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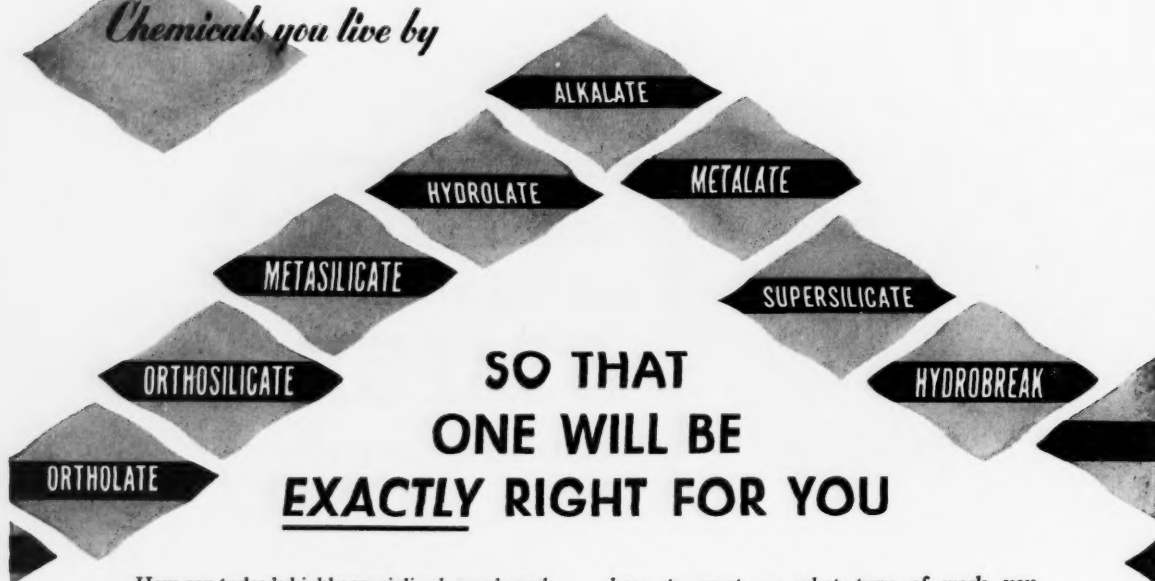


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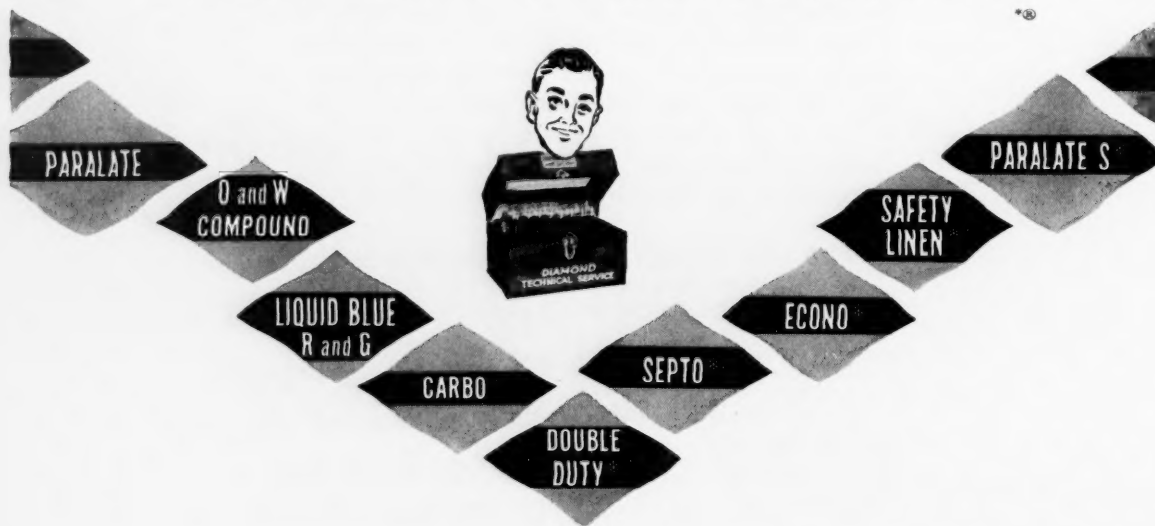
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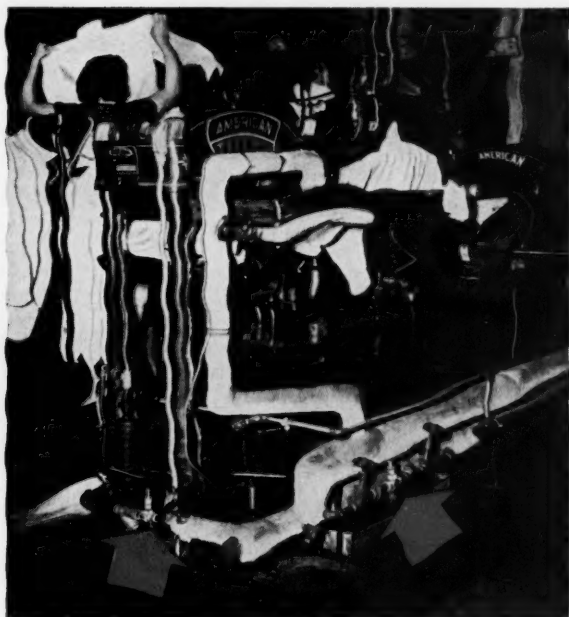
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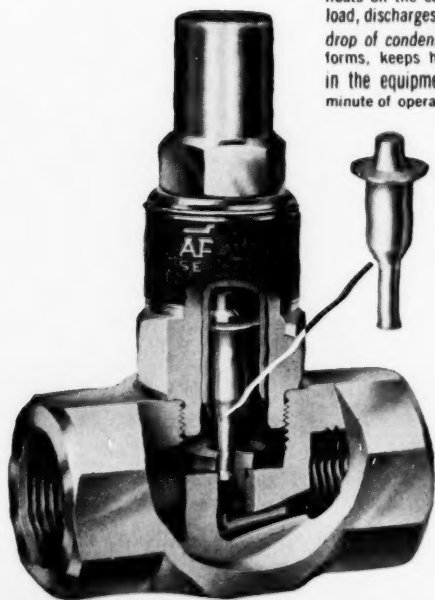


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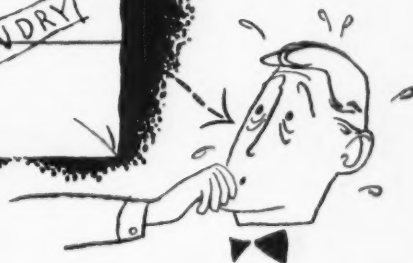
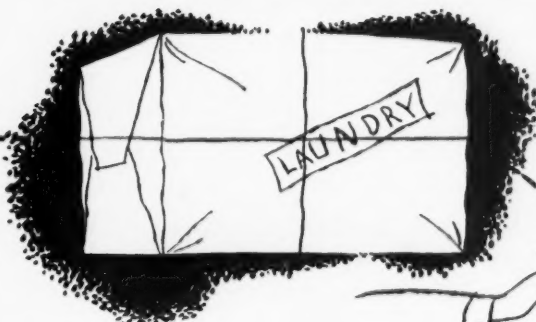
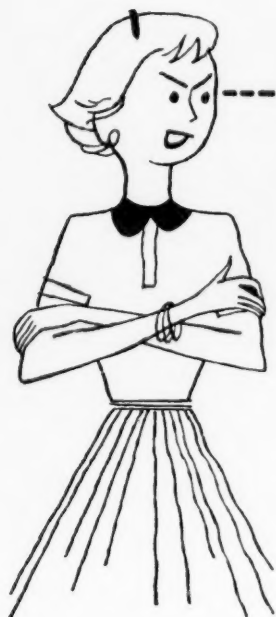
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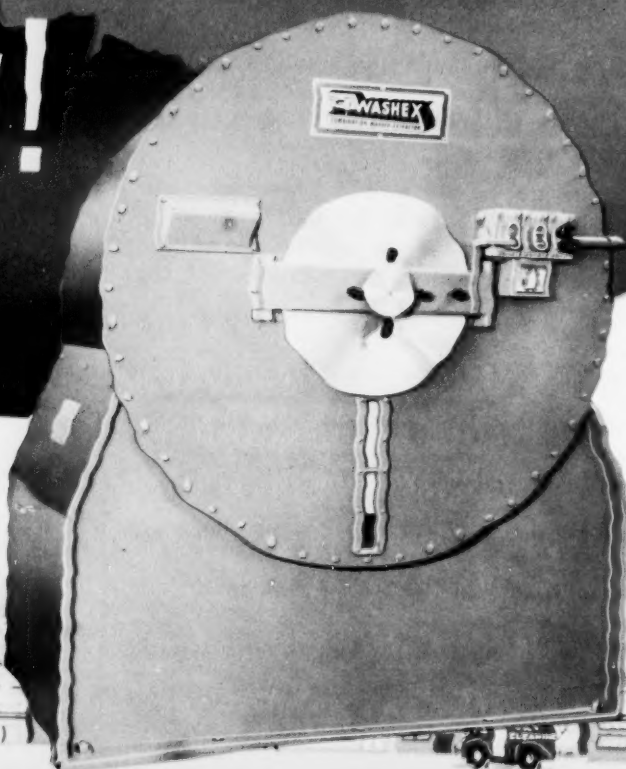
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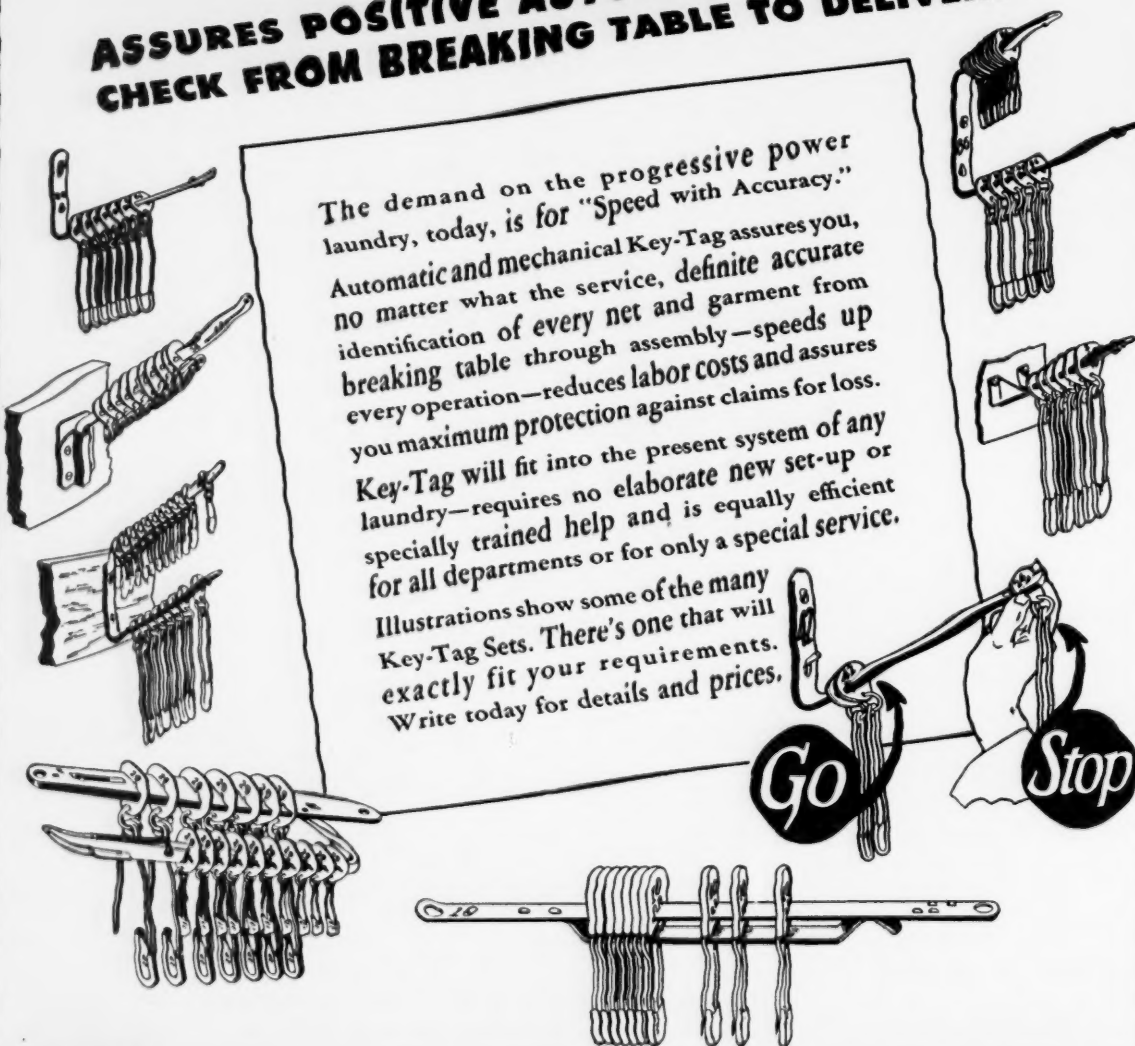
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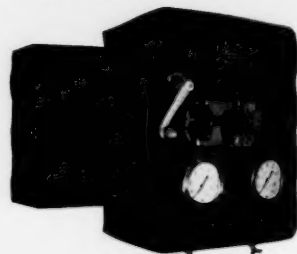
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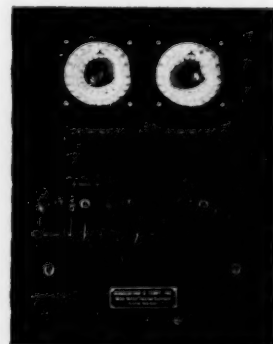


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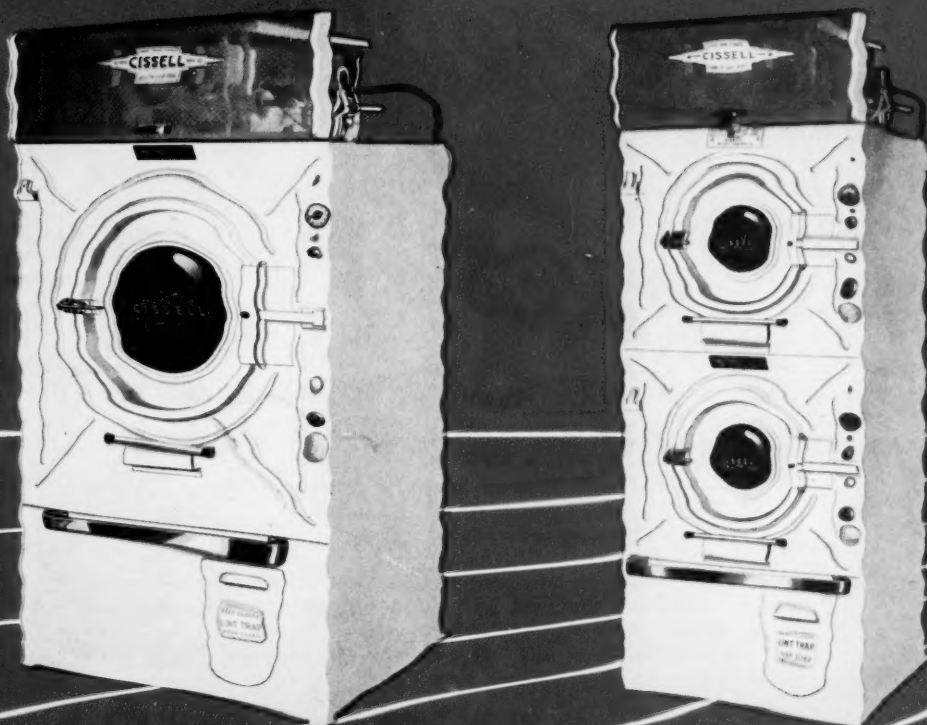
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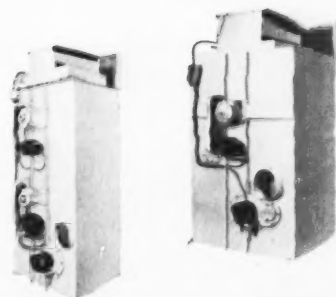


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WESTINGHOUSE COMPRESSORS

THE MORRIS & ECKELS CO.

Executive Office:

CARMAN & CO., INC.

70 Summit St., Brooklyn 31, N. Y.

A Wholly Owned
Subsidiary

WE MEET EVERY REQUIREMENT FOR LAUNDRY, RUG CLEANING, AND DRY CLEANING EQUIPMENT AND SUPPLIES WITH PRODUCTS DEVELOPED BY OURSELVES OR WITH PROVED LEADERS PRODUCED BY FOREMOST MANUFACTURERS.

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A HARD AND FAST ANSWER TO...

Your Water Problems!

CARMAN

INTRODUCES

JEN-R-8



For top quality work in laundering, wetcleaning, rug cleaning or dyeing, get Jen-R-8! Order it in liquid form in 5, 15, 30 gallon containers. In bead form in 25-100 lb. containers.

a **NEW** scientific solution
that **MAKES DETERGENTS DO**
DOUBLE THE WORK!

Now available to the trade exclusively by Carman. A laboratory-tested, laboratory-proved compound, designed to soften and activate water and give you improved detergency in any washing formula.

USE JEN-R-8

FOR CLEANER, SOFTER, BRIGHTER WORK, because it overcomes "graying."

FOR ECONOMY AND QUALITY OF WORK, because it saves on soap, bleach, nets, water, time and labor; and because less of it goes farther and produces better work.

FOR SIMPLICITY OF OPERATION, because it is easy to use with any formula, any degree of water hardness.

FOR VERSATILITY OF APPLICATION, because it can be used direct in the wheel, in stock solution or in soap tank.

FOR MAXIMUM DETERGENCY, because it **properly conditions** water.

ORDER NOW from Carman offices throughout the country: from Morris & Eckels Co., offices in Alexandria, Atlanta, Baltimore, Birmingham, Greensboro, Jacksonville and Norfolk, or the J. Thomas Co. office in Columbus.

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Executive Office:

CARMAN & CO., INC.

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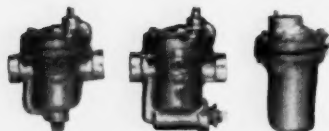
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USE ARMSTRONG STEAM TRAPS

For Every Unit In Your Plant



800-814

880-881

211-216

THE ARMSTRONG TRAPS recommended and listed on this page will make money for you by:

1. Obtaining Maximum Production from Each Steam Heated Unit,—no air or condensate to lower machine temperature.
2. Preventing any waste of live steam.
3. By working year after year with a minimum of attention.

RECOMMENDED TRAP SIZES TO USE

Chest Type Flatwork Ironers

The recommendations given below apply to machines that have been in service for at least three months and are free from core sand. For new machines install No. 812 or No. 212 traps with generous dirt pockets on each chest or use a master trap until all core sand has been eliminated.

| Type | Size | Unit Traps | Master Trap |
|---------|------|------------------|-------------|
| 2-roll | 100" | 1 No. 812 or 212 | |
| 2-roll | 120" | 1 No. 811 or 211 | 1 No. 213 |
| 4-roll | 100" | 2 No. 812 or 212 | |
| 4-roll | 120" | 2 No. 811 or 211 | 1 No. 214 |
| 6-roll | 100" | 2 No. 812 or 212 | |
| 6-roll | 120" | 4 No. 811 or 211 | 1 No. 214 |
| 8-roll | 100" | 2 No. 812 or 212 | |
| 8-roll | 120" | 6 No. 811 or 211 | 1 No. 215 |
| 12-roll | 120" | 3 No. 812 or 212 | 1 No. 216 |
| | | 9 No. 811 or 211 | |

Cylinder Type Flatwork Ironers

| Type | Size | Unit Trapping |
|--------|------------|------------------------|
| 1 cyl. | 16" x 75" | No. 812LV or No. 212LV |
| 1 cyl. | 24" x 100" | No. 813LV or No. 213LV |
| 1 cyl. | 30" x 100" | on each cylinder |
| 2 cyl. | 30" x 120" | |
| 2 cyl. | 36" x 120" | No. 214LV on each cyl. |
| 1 cyl. | 48" x 100" | No. 215LV |

Presses and Other Small Units

| Machine | Speed | Ordinary |
|----------------------------|---------|----------|
| Pony | No. 800 | No. 800 |
| 27" — 38" | No. 800 | No. 800 |
| 40" — 54" | No. 811 | No. 800 |
| Cuff | No. 800 | No. 800 |
| Collar and Cuff | No. 811 | No. 800 |
| Cuff and Gussets | No. 811 | No. 800 |
| Yoke | No. 800 | No. 800 |
| Single Sleeve | No. 800 | No. 800 |
| Double Sleeve | No. 811 | No. 800 |
| Double Sleeve Form | No. 800 | No. 800 |
| Collar Press | No. 800 | No. 800 |
| Body | No. 811 | No. 800 |
| Bosom | No. 811 | No. 800 |
| Steam Iron | No. 800 | No. 800 |
| Curtain and Blanket Dryers | | |
| Horizontal | No. 811 | No. 800 |
| Vertical — | | |
| 2 draw | No. 811 | No. 800 |
| 3 draw | No. 812 | No. 811 |
| 4 draw | No. 813 | No. 812 |
| Hdchf. and Napkin | | |
| Ironer | No. 811 | No. 800 |
| Hose Form | No. 800 | No. 800 |

Dry Tumblers

| Size | Speed Service | Ordinary Service |
|-------------------|-----------------------------|----------------------|
| 36" x 18" | No. 811 or 211 on each coil | No. 800 on each coil |
| 36" x 24" | | |
| 36" x 30" | | |
| Side Loading Type | | |
| 12" x 40" | No. 813 or 213 | No. 812 or 212 |
| 12" x 60" | | |
| 42" x 90" | No. 214 | No. 213 or 813 |
| 42" x 120" | No. 216 | No. 215 |
| 46" x 120" | | |

UNIT TRAPPING CUTS COSTS

Dry Rooms

Length of Dry Room Pipe Coils that can be drained with Armstrong traps at steam pressure from 70 to 110 lbs.

| Pipe Dia. | 1" | 1 1/4" | 1 1/2" | 2" |
|-------------|-------|--------|--------|------|
| No. 800 | 400' | 240' | 170' | 105' |
| No. 211-811 | 500' | 335' | 235' | 145' |
| No. 212-812 | 1000' | 600' | 425' | 260' |
| No. 213-813 | 2000' | 1200' | 850' | 520' |

TRAPS FOR WATER HEATERS

CAPACITIES OF ARMSTRONG TRAPS IN GALLONS OF WATER HEATED FROM 40°F TO 180°F

| Table 1. | Trap Size | No. 212 | No. 213 | No. 214 | No. 215 | No. 216 |
|--|--------------|---------|---------|---------|---------|---------|
| Use This Table If Pressure is Constant Safety Factor 3-1 | Steam Press. | | | | | |
| | 5 | 420 | 760 | 1260 | 2000 | 3700 |
| | 10 | 490 | 950 | 1500 | 2350 | 4350 |
| | 15 | 540 | 1000 | 1600 | 2500 | 4800 |
| | 60 | 510 | 1100 | 1700 | 2400 | 4900 |
| | 100 | 450 | 870 | 1480 | 2500 | 4300 |
| Table 2. | Trap Size | No. 212 | No. 213 | No. 214 | No. 215 | No. 216 |
| Use This Table If Pressure Varies as Specified Safety Factor 3-1 at Minimum Pressure | Steam Press. | | | | | |
| | 5 to 15 | 420 | 760 | 1260 | 2000 | 3700 |
| | 10 to 60 | 250 | 540 | 860 | 1180 | 2700 |
| | 10 to 125 | 180 | 350 | 540 | 860 | 1600 |
| | 50 to 125 | 350 | 650 | 1120 | 1800 | 3350 |
| | 90 to 125 | 440 | 830 | 1440 | 2200 | 4250 |

TRAP PRICES • DIMENSIONS

| Trap Size | Side Inlet Traps | | | | | | Angle | Bottom Inlet Traps | | | | | | |
|-----------------------|------------------|------------|-------------------|------------|------------|----------|------------|--------------------|---------|------------|------------|---------|------------|------------|
| | With Strainers | | Without Strainers | | | | | No. 814 | No. 801 | No. 211 | No. 212 | No. 213 | No. 214 | No. 215 | No. 216 |
| Pipe connections, in. | 3/4 or 3/8 | 1/2 or 3/4 | 3/4 or 3/4 | 1/2 or 3/4 | 3/4 or 3/4 | 3/4 or 1 | 1 or 1 1/4 | 3/4 or 3/4 | 3/4 | 3/4 or 3/4 | 3/4 or 3/4 | 1 | 1 or 1 1/4 | 1 1/4 or 2 |
| List Price | \$11.50 | \$16.00 | \$10.00 | \$14.00 | \$23.00 | \$31.00 | \$46.00 | \$10.00 | \$13.00 | \$21.00 | \$29.00 | \$41.00 | \$55.00 | \$78.00 |
| Telegraph Code | Staloe | Stown | Aloe | Brown | Cherry | Dawn | Esloe | Arrow | Aspen | Birch | Walnut | Hemlock | Larch | Tamarack |
| Height of Trap, in. | 5 1/2 | 7 1/2 | 5 1/2 | 6 3/4 | 8 1/4 | 11 1/4 | 13 1/4 | 6 | 6 3/4 | 8 | 10 3/4 | 12 3/4 | 14 1/2 | 17 |
| Diameter, in. | 5 | 5 | 5 | 5 | 6 3/4 | 7 3/4 | 8 | 3 3/4 | 4 1/4 | 5 1/4 | 6 3/4 | 7 3/4 | 8 3/4 | 10 3/4 |
| Weight, lb. | 5 1/2 | 6 | 5 | 6 | 15 | 27 | 45 | 5 | 6 | 12 | 21 | 35 | 47 | 78 |
| Max. pressure, lb. | 150 | 250 | 150 | 250 | 250 | 250 | 250 | 150 | 250 | 250 | 250 | 250 | 250 | 250 |



ARMSTRONG MACHINE WORKS

832 Maple St., Three Rivers, Michigan

When writing to advertisers please mention STARCHROOM LAUNDRY JOURNAL

Built-In Strainer Traps

No. 880 and 881 traps have built-in strainers for extra insurance against dirt stoppage. Capacities are the same as No. 800 and 811. Connections 1/2" or 3/4". Built-in strainer traps cost less than separate traps and strainers—save two external fittings—take less time to install.

Armstrong also makes Y-type strainers in 1/4" to 2" sizes for use with larger traps.

Unit Trapping Can Increase Your Profit. Bulletin 1931 tells the story.

SAVE

\$70-\$80-\$90 or MORE each week.

Increase production and reduce labor turnover with "A" SPREADER

Increase efficiency; reduce idle time of feeders and folders.



This machine enables

ONE Operator to "spread" and deliver to the ironer feeders, more sheets per hour, than 3 to 4 hand shakers.

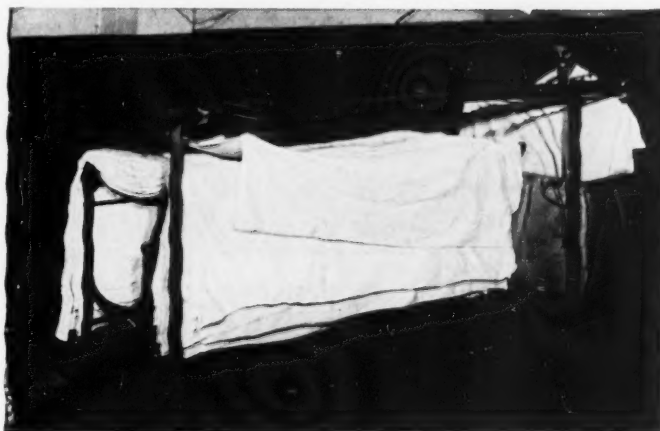


This machine IS the backbone of MECHANIZED flatwork



The SAGER "B" SPREADER

This machine is designed for the single ironer plant. For the feeding of large flatwork at high speed and in larger lots.



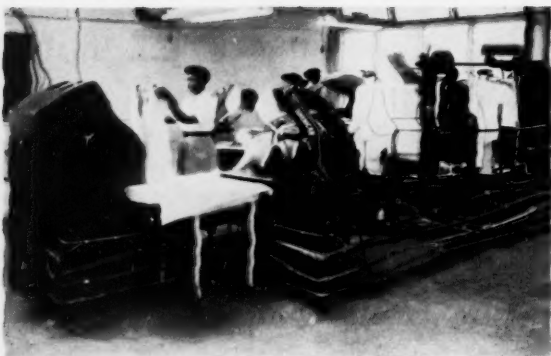
ONE Operator does the work of 2-3 hand shakers; with less effort and higher efficiency. There is NO lifting of heavy loads, 80-90 sheets are quickly and easily transported to the ironer feeders on each of three RACKS.

Increased employee efficiency. Idle time at the ironer greatly reduced. Labor turnover reduced. Your SPREADER Operator becomes a machine operator. **INSTALLATION** quickly and easily made. Independent of the flatwork ironer. Model "B" can be **PLUGGED** into the lighting circuit.

Manufactured by M. A. POCOCK

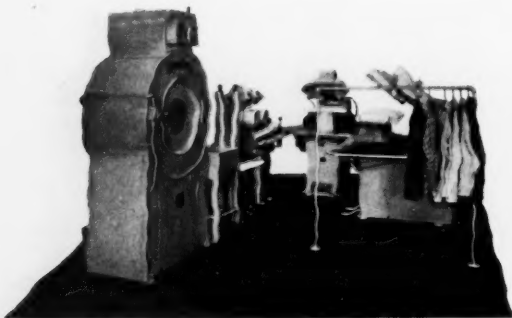
1234 Central Ave. N.E.
Minneapolis 13, Minn.

**For high-production
finishing of shirts and
wearing apparel.**



Formatic Shirt Unit. Reduces labor costs, boosts production, improves quality of finished shirts. With only 3 operators, FORMATIC outproduces any 4-girl unit. Sleeve Finisher (left) automatically measures sleeve lengths for flawless ironing from shoulder seams to cuffs. Formatic Press beautifully finishes entire shirt front and body in one operation. Formatic Automatic Folder quickly, neatly folds shirts regardless of operator's skill or dexterity. Average production well over 100 shirts per hour.

Ask your American Representative to show you the motion picture of Formatic in operation.



One-Operator Sport Shirt Unit. Specially engineered—not just adapted! Insures high quality finishing of all washable sport shirts—synthetic or cotton. The light pressure and sand-blasted hot heads of presses minimize "shine" on synthetic fabrics. Yoke & Collar, Bosom & Body Presses both have steam and vacuum in bucks. Vacuum holds thin synthetic shirts in place for accurate pressing. All three presses have Special Hamilton Spring Padding for fast, uniform steaming and to reduce button breakage. Tumbler optional, for pre-drying soft weave shirts.

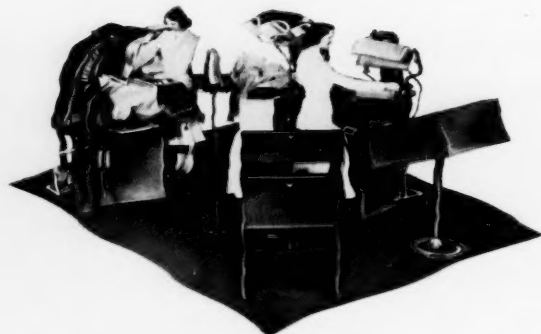
Write for Bulletin AJ 317-102.



You can depend on this man

He's your American Laundry Machinery Representative, well-trained in laundry operations. As he represents the World's Most Complete Line of Laundry Equipment, you can rely on his unbiased advice in your selection of equipment that's just right for you.

Your American Representative can help solve your production problems because he provides you with American's 85 years of experience in planning and equipping laundries. Contact American for his specialized assistance at any time... without obligation, of course.



2-Operator MACHINE-FINISH Shirt Unit. Has capacity of over 2000 shirts per 40-hour week with only 2 operators. Completely machine-irons and folds shirts ready for delivery. No hand touch-up needed. Little supervision required, even "green" operators quickly get up to top production. Optional with special finger-tip pressure control for finishing sport shirts.

Write for Bulletin AJ 316-002.



Super-Zarmo Presses. Wide selection of models designed for fast, quality pressing of all types of wearing apparel, linen supply garments and shirts. Combine various models to create production-balanced units which reduce hand finishing and give highest hourly output. Powerful $3\frac{1}{4}$ Tons Direct-Upward Pressure never varies, never adjusting. Simplified air control requires minimum maintenance, makes operation fast, safe and easy.

Write for Bulletin AK 530-002.



Super-Zarmoette Presses. Variety of models designed for quick-pressing small articles of wearing apparel, or intricate portions of large garments which ordinarily require hand touch-up. Greatly reduces hand finishing. Can be combined with other large-buck presses to form various high-production units. Powerful, positive pressure. Simple push-button controls.

Write for Bulletin AK 543-002.



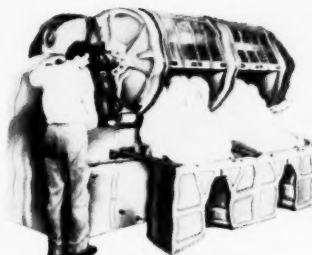
AMERICAN

LAUNDRY MACHINERY CO.

CINCINNATI 12, OHIO

"World's Largest, Most Complete Line
of Laundry and Dry Cleaning Equipment"

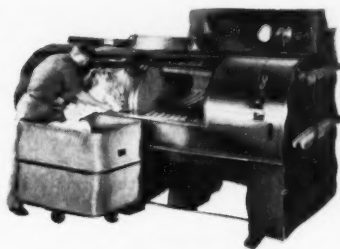
Look to ONE SOURCE for all your laundry machinery needs... **American**



For high-quality,
low-cost washing . . .

Cascade Unloading Washers. Simply press a button, load empties automatically in less than a minute. Gives you more loads a day, saves labor. Full drop of work in open-pocket cylinder assures quality washing in shortest possible time, with least water and supplies. Built to operate without expensive maintenance. Sizes 42" x 54", 42" x 84", 42" x 96" (225, 350, 400 lbs. dry wt. capacities).

Write for Bulletin AB 334-322.

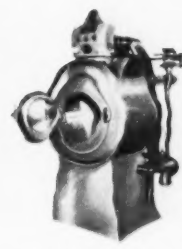


R.H.P. Cascade Washers with Removable Horizontal Partitions. Designed for time-and-labor saving operation. Feature fast, easy slide-out unloading, plus all the advantages of open-pocket washing and "Two-Way Water Action". After load is washed, horizontal partitions are inserted. Load then slides easily from washer. Sizes 36" x 54", 42" x 36", 42" x 54", 42" x 84" & 42" x 96" (150, 165, 225, 350, 400 lbs. dry wt. capacities).

Write for Bulletin AB 330-602.

Also Cascade Washers without Removable Horizontal Partitions. In 24" & 30" dia. sizes (27 to 95 lbs. dry wt. capacity), 36" & 42" dia. sizes (110 to 400 lbs. dry wt. capacity).

Write for Bulletins AB 332-242 (24" & 30" dia. Cascades), AB 330-362 (36" & 42" dia.).



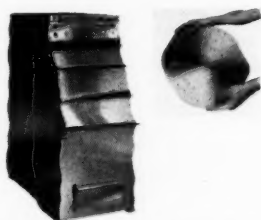
30x15" Junior Cascade Washer with Rinsomatic Control. Washes small loads, specials and go-backs quickly and economically. Dry wt. cap. 25 lbs. Control automatically times washing cycle, admits and drains each bath, signals for supplies, rinses automatically, and signals when load is washed. Saves steps, time, water and supplies.

Write for Bulletins AB 331-302 and AB 331-312.

Other Cascade End-Loading Washers available in 36" x 18" & 42" x 24" sizes (50 & 100 lbs. dry wt. capacity).

Write for Bulletins AB 331-362 (36x18") and AB 331-422 (42x24").

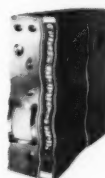
American builds the World's most complete line . . .
gives you the widest choice of sizes and types!



For better washing
in less time . . .

Cascade Full-Automatic Control. Takes washer through complete washing formula, unattended. Governed by tamper-proof unalterable metal formula plates, prepared specifically for each formula. Admits water to correct level, regulates temperature, adds supplies, times and changes baths. At end of cycle, signals operator by both light and whistle. Saves washman's time, eliminates chance of error. Gives you consistently uniform quality washing with minimum water and supplies.

Write for Bulletin No. AB 134-322.



Cascade Semi-Automatic Control. Mounts right on washer. Metal formula plate automatically governs operation of entire washing formula except addition of supplies. When supplies are to be added, Control stops timed cycle and signals operator. Increases washer output, saves washroom labor.

Write for Bulletin AB 134-332.



Type "W" Control. For washers using short or frequently varied washing formulas. Manually set for each bath, Control accurately times bath, automatically drains washer, then signals operator by both light and buzzer. Saves washman's time and prevents overruns.

Write for Bulletin ALM 136-402.



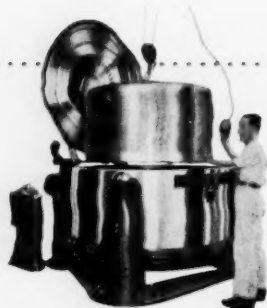
**The
AMERICAN
LAUNDRY MACHINERY CO.**

CINCINNATI 13, OHIO

"World's Largest, Most Complete Line
of Laundry and Dry Cleaning Equipment"

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American.....



For fast, economical extracting . . .

Notrux Extractor. Gives mass-production output with big savings in labor. Removable containers are loaded right at washer—lifted into and out of extractor by electric hoist. Loads changed in less than a minute. Extracts more loads a day, keeps washers busy without delays. Sizes: 50", 54" & 60" (305, 375, 480 lbs. dry wt. capacity).

Write for Bulletins AC 263-502 (50" & 54"), AB 263-602 (60").



O.T. Extractors. Low-set for easier loading and unloading, minimum vibration. Basket spindle operates in two heavy duty grease-lubricated roller bearings. Available Monex-type with corrosion-resistant metal curb (as shown), or with painted steel curb. Furnished with mechanical timer and automatic brake. Sizes: 40" & 48" (150 & 250 lbs. dry. wt. capacity).

Write for Bulletin AC 218-002.



Solid Curb Extractors.

Extremely rugged and dependable for long service with minimum maintenance. One-piece, Meehanite Metal curb, with straight, vertical sides and lower height for more comfortable loading and unloading. Self-balancing basket with doubly interlocked safety cover assures smooth, safe operation. Sizes 20" & 26" & 30" (25, 50, 80 lbs. dry wt. capacities).

Write for Bulletin AC 214-032.

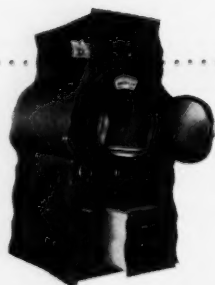


17 MOTEX Extractor.

For speedy handling of specials, go-backs, fugitives, silks and rayons. Quickly removes water (up to 50% of dry weight) from washed work for faster, better-quality drying or ironing. Direct-spindle motor driven. Timer and Automatic Brake, optional. Capacity 15 lbs. dry. wt.

Write for Bulletin AC 212-172.

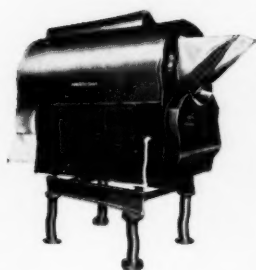
American.....



For fast, thorough drying . . .

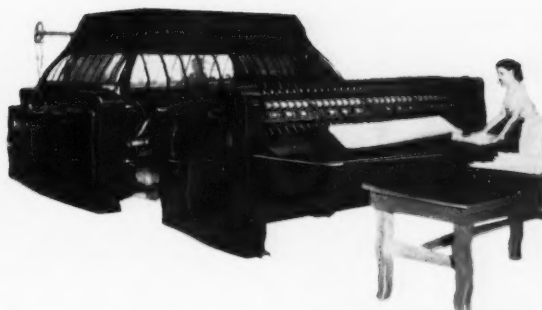
ZONE-AIR Tumblers. Give faster, thorough drying at lower operating cost. Heated air concentrated in "zone" where work is opened for greatest exposure to heat. Electrically interlocked door starts cylinder and fan when closed, stops them when opened. Steam heated. Single motor drive with non-reversing cylinder, or double motor drive with reversing or non-reversing cylinder. Dry Alarm optional. Sizes: 44" x 42" with built-in Lint Drawer (as shown), 110 lbs. dry wt. capacity, and 36" x 30", 36" x 24", 36" x 18" (40, 30, 20 lbs. dry wt. capacities).

Write for Bulletins AE 324-002 (44x42"), AE 322-002 other sizes.



For better
flatwork conditioning,
ironing and folding...

48 x 84" Rotaire Conditioning Tumbler. Delivers continuous flow of properly conditioned large and small-piece flatwork to two 8-Roll Ironers. Furnished with Feed and Discharge and Distributing Conveyors. Eliminates manual shakeout, reduces costly transporting and handling of work. Reduces flatwork department labor and increases per-operator production. Capacity: 1500 lbs. dry wt. per hour. Write for Bulletin AD 712-482, also Bulletin AD 714-502, "American Mechanized Flatwork Ironing."



Super-Sylon Flatwork Ironers. Have more capacity than any other ironers of equal size. Large 13 1/2" diameter rolls give 20% more heated surface under pressure, for fine quality ironing at increased speed. Ironing chests designed for steam up to 125 lbs. pressure—produce more heat to iron linen faster. Convenient grease-gun lubrication to all friction points. Available with Hamilton Spring Padded rolls and vacuum exhaust. Sizes: 4-Roll (100", 110", or 120"); 6-Roll (100", or 120"); 8-Roll and 12-Roll (120").

Write for Bulletin AD 565-002.

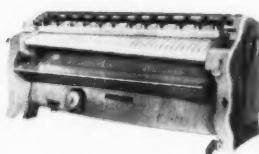
TRUMATIC Folders. Automatically quarterfold linens at fastest ironing speeds as they come from ironer. Only one receiving operator needed to crossfold and stack work. Self-contained, independently driven. For use with any 110" or 120" ironer. Available in 4 models; single lane for folding all large linens, or single and double lane for also folding pillow cases, towels and other small flatwork from individual family bundles.

Write for Bulletin AD 755-002.



36 x 30" Conditioning Tumbler. Especially designed for individual bundle flatwork in net & pin system plants. Cuts down on manual shakeout, permits faster feeding to ironers, improves ironing quality. In just 45 seconds to 1 1/2 minutes—depending on bundle size—flatwork is conditioned to the right moisture content for top quality ironing. Has built-in Lint Drawer, lighted interior, reversing cylinder.

Write for Bulletin AD 712-202.



Temcon Gas-Heated Flatwork Ironer. Dependable for fine quality, low-cost ironing of all type linens. Ideal for small, neighborhood laundries and feeder outlets. Heated by any type gas. Simple, safe operation. Has Thermostatic Temperature Control and Automatic Gas Safety Shut-Off. Available with feed and delivery on same side, also for changing to straight-through ironing. Sizes: 60", 85" & 110".

Write for Bulletin AD 321-002.



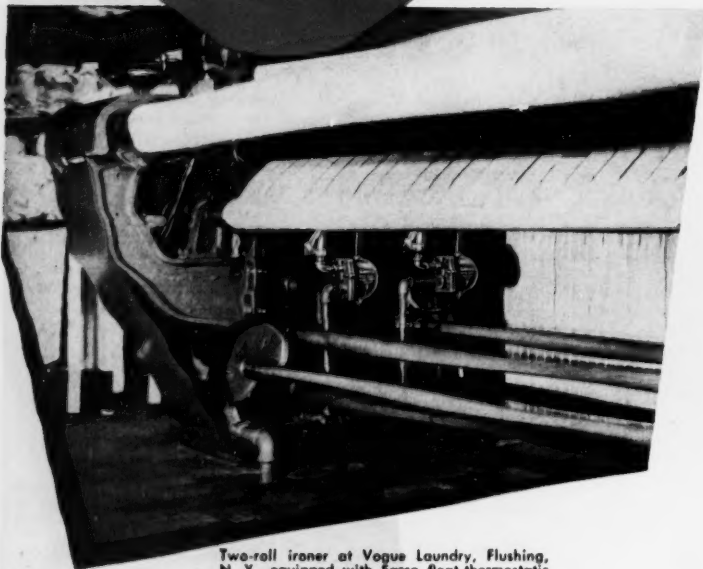
Retron Flatwork Ironer. Beautifully irons all flatwork in laundries with limited personnel and moderate production requirements. Simplified push-button operation. One-side feed and delivery saves space and makes it possible to install ironer against wall or in corner. Steam heated. Smooth, noiseless operation. Sizes: 85" and 110" (66 to 88 lbs. per hour capacity).

Write for Bulletin AD 324-002.



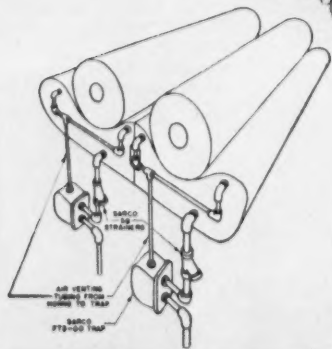
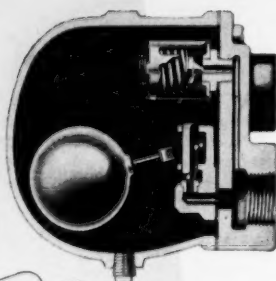
The
AMERICAN
LAUNDRY MACHINERY CO.

CINCINNATI 12, OHIO


INCREASE
ironer production
20%


Two-roll ironer at Vogue Laundry, Flushing, N. Y., equipped with Sarco float-thermostatic steam traps and strainers.

Sarco float-thermostatic steam trap with built-in thermostatic air vent using the famous Sarco bellows. Assures an even temperature across the rolls by removing condensate and air rapidly and completely.



Piping hook-up for Sarco float-thermostatic steam traps and strainers on two-roll flatwork ironer.

by installing
SARCO
**FLOAT-THERMOSTATIC
STEAM TRAPS**
on flatwork ironers

● An even temperature across the entire heating surface — that's a must with flatwork ironers, more than with most types of steam heated equipment.

Careful tests over a long period have proved these SARCO traps greatly superior because they

- 1) discharge all of the condensate *as it forms* — preventing waterlogging.
- 2) discharge air and gases through the *large capacity* thermostatic air vents — preventing formation of heat-insulating films of air.

The result is more work per hour with less steam.

Write for new bulletin 450-7 — no obligation.

SARCO COMPANY, INC.
EMPIRE STATE BUILDING, NEW YORK 1, N. Y.

SARCO CANADA LTD., TORONTO 8, ONTARIO
REPRESENTED IN PRINCIPAL CITIES

362



BOY...

beautifully finished
and folded by
UNIPRESS!

2-Girl CONSTELLATION Shirt Finishing Unit

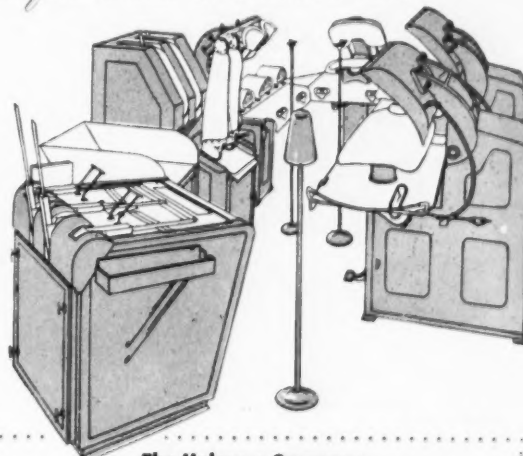
VISIT US AT
A.I.L. CONVENTION
LOS ANGELES, CALIF.
OCTOBER 9-11
BOOTHS 138-139

Distinguished for the "hand-ironed" finish that sells housewives

Accurate timing, feathery response make the Unipress 2-Girl Constellation the last word in quality shirt finishing equipment. Dual controls swiftly respond to operator lays resulting in perfect machine-operator coordination. Smooth chrome heads and Unipress "gliding" action achieve a superb quality finish.

Sparked with the One Lay Sleever and the amazing Automatic Shirt Folder, your Unipress 2-Girl Constellation can be the key to new production records and greater profits.

If quality shirt business is important to you... see your local Unipress distributor today!



FINER FINISHING **FASTER**

with

UNIPRESS

The Unipress Company
2800 Lyndale Ave. S., Minneapolis, Minn.

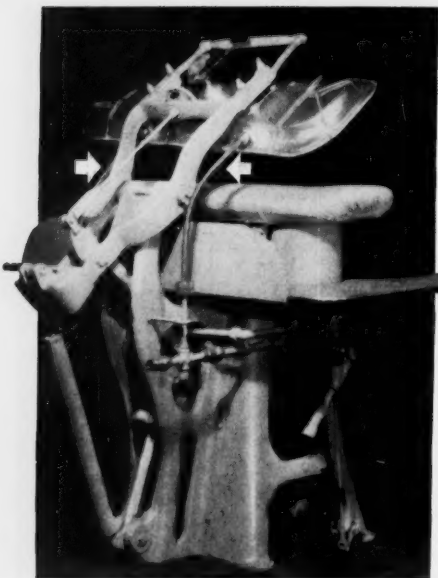
The Unipress Company

2800 Lyndale Ave. S., Minneapolis, Minn.

Send floor plans and complete information on:

- _____ 2 Girl CONSTELLATION Shirt Unit
- _____ 3 Girl CONSTELLATION Shirt Unit
- _____ Unipress Automatic Folding Table
- _____ Unipress One Lay Sleever

Name _____
Firm _____
Address _____
City _____ Zone _____ State _____



STEAM-FLEX

Eliminates Leaky Joints

Prevents Costly Escape of Steam

Drycleaners! Laundries! Press Shops! You can improve your press operations with Steam-Flex—the flexible metal steam hose that eliminates leaky joints and prevents costly, uncomfortable escape of steam. Its extreme

flexibility makes head operation an easier job.

Its extreme durability eliminates maintenance

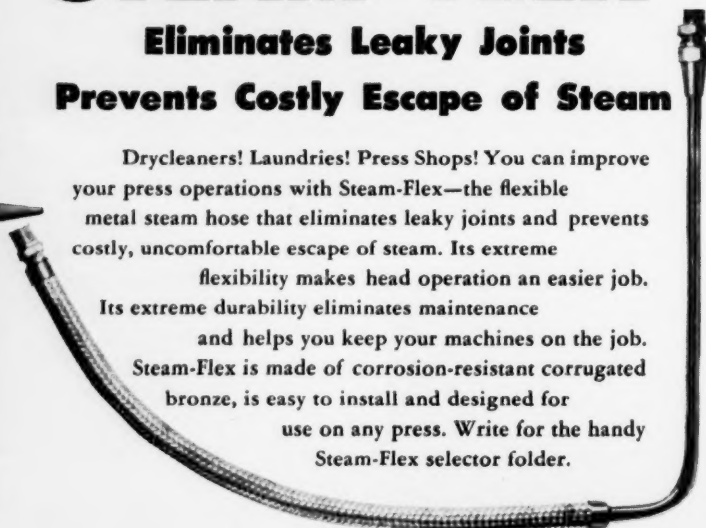
and helps you keep your machines on the job.

Steam-Flex is made of corrosion-resistant corrugated

bronze, is easy to install and designed for

use on any press. Write for the handy

Steam-Flex selector folder.



Flexon identifies CMH products that have served industry for over 50 years.

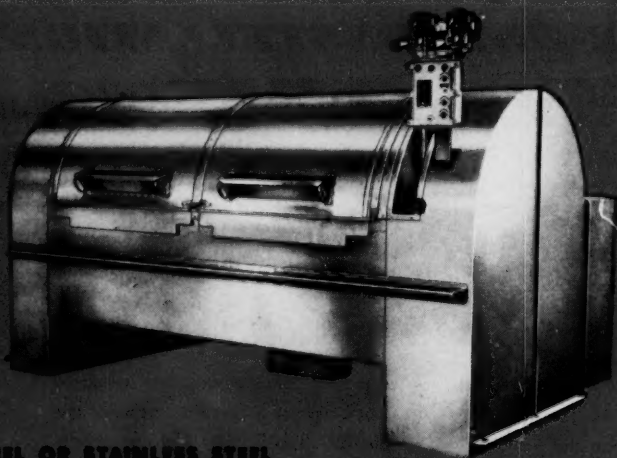
CHICAGO METAL HOSE Division

Flexonics Corporation 1304 South Third Avenue, Maywood, Illinois

Manufacturers of flexible metal hose and conduit, expansion joints, metallic bellows and assemblies of these components.

In Canada: Flexonics Corporation of Canada, Ltd., Brampton, Ontario

FOR SIMPLE, **LOW COST** TROUBLE FREE OPERATION THE NEW **CUMMINGS-LANDAU** **ALL METAL** **WASHER**



...IN MONEL OR STAINLESS STEEL

Washes faster, cleaner, has never-quit dependability! Over 25 years of engineering and operating experience helped us produce this modern, up-to-the-minute washer.

CHECK THESE OUTSTANDING FEATURES

- No complicated mechanisms — all standard name parts
- All welded heavy gauge cylinder in any size or number of pockets
- Cylinders have solid monel or stainless steel heads

- No weld on inside of open pocket cylinders
- Machines with cylinders over 64" in length are double end driven
- Heavy gauge shell doors are welded to heads permanently, eliminating leakage troubles
- Shell heads are solid steel with

mandrel or machine end flange on inside

Manufactured in sizes from 30x30" up to and including 60x126". Open, Pullman "slide out," or "V" slide out compartments, number and type to suit requirements.

- Special technique packing gland, easily accessible
- Shell doors have supply openings
- Heavy roller chain and multiple "V" belt drive assure silent, trouble-free operation

- Solid cast steel one-piece transition
- Large, over-size (standard type) with aligning transition bearings
- Air-electric operated damp valve optional
- Automatic door opening optional

We also manufacture standard extractors, unloading extractors, wood washers and replacement cylinders

CUMMINGS-LANDAU LAUNDRY MACHINERY CO., Inc.

305-17 Ten Eyck Street, Brooklyn 6, N. Y. • Over a Quarter Century of Laundry Machinery Know-How



DOW SODIUM ORTHOSILICATE SUSPENDS INSOLUBLE SOIL AND PREVENTS REDEPOSITION

It costs you less and you get those
extra-dirty fabrics cleaner faster



For a thorough washing job on work clothes, rags, linen supplies and other unusually dirty fabrics, Dow Sodium Orthosilicate cleaning compound is a necessity. It is an excellent soap builder, which means it saves you money by reducing soap requirements.

Dow Sodium Orthosilicate cleaning compound makes clothes cleaner because it readily suspends insoluble soil and prevents redeposition. It has a high acid capacity and its alkalinity is sufficient to emulsify oils and fats that are

present. Dow Sodium Orthosilicate is easily rinsed from the clothes leaving them fresh and clean.

Be sure your laundry is taking advantage of this money-saving—soap-building cleaning compound. Telephone or write to your nearest Dow sales office today. They will be glad to give you the name and address of your distributor so you may receive the complete information on Dow Sodium Orthosilicate cleaning compound. **THE DOW CHEMICAL COMPANY, Midland, Michigan.**

you can depend on DOW CHEMICALS





Get... Robot

ROBOT

is the most efficient washer you can install in your washroom . . . all of its outstanding features have been designed as a part of the washer - not added on. The result is a compact, space-saving washing unit with an unusually high degree of operating efficiency.

The "Wash-O-Matic" Brain follows your formulas precisely for every kind of load and any degree of soil. Formulas are repeated time and time again with the same degree of accuracy. The troublesome "mistake-factor", so prevalent in manual operation, is completely eliminated.

ROBOT is the only washer with a Pre-Mixing Tank "built-in". All detergents are thoroughly mixed and dissolved in pre-determined gallonage of water of the right temperature, before coming in contact with the load. Gone are bleach burns, soap specks and other troubles. . . . This feature alone means 3 to 6 extra loads per shift.

These features mean more profits with less labor. You should learn the complete ROBOT story now . . . when you do you'll GET ROBOT! Write today.

WASH-O-MATIC
BRAIN

PRE-MIXING
TANK

SAVES LABOR
AND SUPPLIES

MORE PROFITS

Robot Laundry Machinery Sales
Division of The Wolf Company
Chambersburg, Penna.

Please send without obligation full information
on ROBOT Self-contained Automatic Washers.

Name

Company

Address

City Zone State



ROBOT

LAUNDRY MACHINERY SALES

DIVISION OF THE WOLF COMPANY

CHAMBERSBURG, PENNSYLVANIA

THE FIRST AND ONLY SELF-CONTAINED COMPLETELY AUTOMATIC WASHER

CAGED IN

*by
outmoded
methods
?*



The ultra-modern Detrex Two-Bath Process opens the door to the biggest business-building opportunity in the drycleaning industry!

Detrex Two-Bath cleaning quality is so exceptional that pass-ups constitute 85% to 90% of your volume in any climate or any season. Costs go down—profits go up . . . and more work can be processed through your shop.

Further, the soft, new-bright look which only the Detrex Two-Bath Process imparts is immediately noticeable to customers. It has built immediate new volume for every single user.

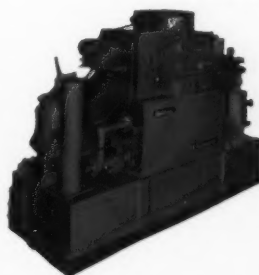
You add sparkle to your service, too. Fast service is easy as pie and ultra-profitable because Detrex divides the load into one machine for cleaning, one for solvent recovery . . . you get a load of miracle-clean clothes every fifteen minutes!

These are but a few of the features of our new

Two-Bath Process. Features that are the key to lower costs and higher profits with much less effort. To get the whole story, simply fill out and mail the coupon on the next page.

DETREX CORPORATION, Box 501, Detroit 32, Michigan, Dept. M-5000

DETREX CORONET



DETREX MONARCH



The Monarch for 120 lb. hourly capacity—the Coronet for 80 lb. hourly capacity. The two-bath process for 3% to 4% strong soap-solvent solution is optional at extra cost on both units.

DETREX

DROP IN . . . see our exhibit, Booth 329-30, A.I.L. Convention, Los Angeles . . . October 9 thru 11.

The Process that Shaped the Industry

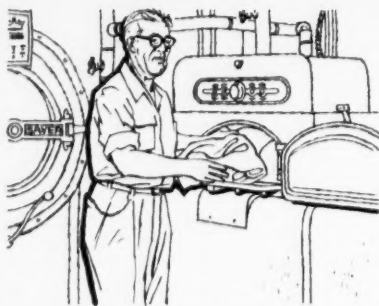


This could be YOU

ANOTHER TRUE DETREX SUCCESS STORY

One of the first to take advantage of Detrex's entry into the West Coast market was Fred Corfee, owner of Corfee's Laundry & Dry Cleaners, 2414 16th Street, Sacramento, California.

Celebrating his twenty-eighth year in business, Fred has installed a new Detrex Two-Bath Monarch. A synthetic booster for the past ten years, Fred goes on



record as stating: "Detrex, with the two-bath system, definitely turns out the best cleaning we have ever experienced."

A veteran drycleaner and launderer, Fred has devoted over forty years to the industry. Born in Seattle, Washington, Fred went to work in his uncle's laundry directly upon leaving school. Starting as a helper, young Fred worked in all the



departments including engineering, winding up as Assistant Superintendent.

As a member of the Naval Reserve, Fred did a tour of duty in the rugged Sub Chaser Service in World War I. From 1919 to 1923 he worked for Cascade Laundry, and from '23 to '24 managed the Palace Laundry. In August of 1925, he founded his own business, and has steadily prospered ever since.



Operating a cash and carry business, his drycleaning volume has shown a marked increase each year from the very beginning. Currently handling the largest volume in the history of the business, Fred says: "With the quality cleaning we are getting from the Detrex Two-Bath Monarch, we know we will definitely do even better in the future."



Contemplating another large cash and carry office in a new, fast growing community, Fred, meantime, is literally enjoying the "fruits" of his labor. He has recently purchased an apple orchard which he tends with loving care, while supporting it with the "apple" of his eye, the new Detrex Two-Bath Monarch.

DETREX CORPORATION

Box 501, Dept. M-5000

Detroit 32, Michigan

Please rush me without obligation complete details on the Detrex Two-Bath Process.

NAME _____

ADDRESS _____

CITY _____

ZONE _____

STATE _____

Detrex equipment is sold and serviced from coast to coast through a network of distributors.

These distributors have been individually selected by Detrex on the basis of "know-how" and ability to render top-flight service. Well versed in drycleaning in all its phases—trained to recognize and serve your every need—they stand ready to fill all your drycleaning requirements.

For the full Detrex Story, call upon the Detrex distributor in your area. Just fill in the attached coupon and mail it today. We will advise you of his name by return mail.

NOW! LAUNDRY SOAPS AND DETERGENTS FROM LEVER BROTHERS! MADE STRICTLY FOR THE TRADE! FREE TRIAL KIT MAKES SELECTION EASY!

FREE TRIAL SAMPLES:

*select
the sample
you
want!*



Fine Products of
LEVER BROTHERS COMPANY
New York, N. Y.

Here's the chance to select—with an actual, firsthand try—the Lever soap or detergent for your laundry operation.

Whether you want a heavy-duty detergent or pure, mild soap flakes, you can find the answer to your problem from this specially prepared kit. And more important—once you've selected the fine Lever product you want—you'll find it's immediately available.

These soaps and detergents are the result of Lever's long-time experience in the field—and are specially designed for commercial laundry use. That means they're available, economical and your assurance of unexcelled laundering... every wash.

SL-4

Clip this coupon to your letterhead and mail today to Lever Brothers Company, Industrial Sales Division, 390 Park Ave., New York, N. Y.

I want the samples I've checked:

- | | |
|---|---|
| <input type="checkbox"/> Lever Hot Water Formula | <input type="checkbox"/> Lever Formula 700—pure mild soap flakes for fine fabrics |
| <input type="checkbox"/> Lever Formula 770—all-purpose granules (a cold water soap) | <input type="checkbox"/> Lever High Titer Chips—88% soap 42" titer |
| <input type="checkbox"/> Lever Formula 880—heavy-duty synthetic detergent | <input type="checkbox"/> Lever High Titer Granules—92% soap 42" titer |

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When writing to advertisers please mention STARCHROOM LAUNDRY JOURNAL

Quality is a way of doing ^{more} business

Quality means more profits for you — and Armour products mean quality!

A whole family's laundry — fresh and sparkling clean like this bundle — means repeat business. That's why this wash was done with Armour products that insure quality.

The color work was done with Hilo Powder — a balanced blend of builders and medium titer soap that removes 90% of the dirt in the first suds at safe, low temperatures.

Whitework that's sparkling, like those spanking fresh shirts, brings customers back again. Flint Chips — a quick-

penetrating, high titer neutral soap with a minimum of 88% anhydrous soap and a 41-42°C. titer — does the job right. You can also get Flint in powdered form, with a 92% minimum soap content. Or, if you prefer a ready-built product, use Giant Powder. It has a high soap content and a titer of 41-42°C. Trial lots of these products will show you how Armour quality works in your plant to please customers and increase your volume. Order them today from your salesman or write to Armour.

ARMOUR

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AN ALL-STAR "9" TRIED and PROVED

Ready to "bat" out those
Bundles For You



"TY-ON" Press Covers

3-Dimensional design (Length-Width-Depth) retains shape built into buck by press manufacturer. Made in slick or non-slip Nylon, cotton drill and tan moleskin.



Ever-Moist

Nylon
Basket
Bodies

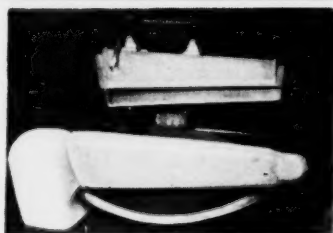
With or
Without
attached
Covers

Keeps washed work from losing dampness before finishing. Replacement for torn and soiled canvas bodies.



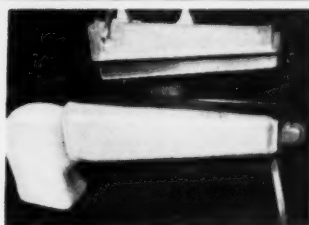
3-Dimensional Asbestos Press Boots

Replacement cover over metallic flannels. Can be used over D. F. Flannel for greatly increased service. Keeps top press cover hotter and drier. Better quality finish. Maximum production. 3-Dimensional design assures perfect fit. Easier to apply and remove. A choice of two asbestos fabrics.



"SLIP ON" Sleevers Covers

The Nylon cover slides over entire buck from "hot" nose to shoulder with bottom completely enclosed. No "shirt-tearing" spring fasteners needed—nothing but lightning-slick Nylon to improve quality and to speed up production.



"SLIP-ON" Stocking Pads

Perfect companion for SLIP-ON Nylon Covers. Slips over steel wool pad. Two full thicknesses, plus build-up strip—D. F. Flannel or JOMAC.



"Claim-Saver" Brilliant Red Separators

Easy-to-use method for eliminating mix-ups on flatwork ironers. Cheap insurance for costly claims. Operator alerted by bright Red color—different colored pocket. All edges bound in Nylon. Two sizes—15" x 72" and 15" x 36".



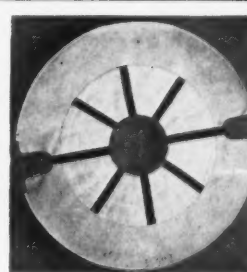
Cabinet Sleevers

Type for the Prosperity model covers Cuff Block. No cords to tie or burn. No cord pressed into the gusset. Cover is always held in position, cannot slip down or wrinkle. A precision-made cover that fits better, gives better finish, and wears longer. Flannel attached for easy application PLUS build-up strip for maximum contact. Covers also made for other cabinet sleeves.



"DUO-NYL" Expander Pad- Covers

Made of 100% NYLON. Napped on one side for padding against metal blade. Woven side is your cover. Nothing else needed. An ideal combination pad and cover to fit all types of one-day cabinet sleeves. Generous in size for easy closing.



"SAV-A-LOAD" Extractor Covers Greater Pay Loads Protection Against Soil and Damage

Double-thickness extra strong cotton duck. Reinforced at all points of strain with a Nylon Webbing. All sewing in Nylon thread.

FABRIC SPECIALTIES FOR BETTER BUNDLES

Ask Your Jobber
About Bonn Products

F.H. BONN
COMPANY

619 W. Fulton St.
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AMERICA'S No. 1 CHOICE...

HUEBSCH

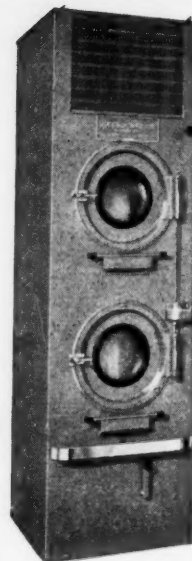


OPEN-END TUMBLER

Fast drying—Efficient and economical operation—Quick easy loading and unloading—much less labor required—Sturdy construction—Low maintenance. Laundry type in 4 sizes—36" x 18"; 36" x 24"; 36" x 30" and 42" x 42" for large volume drying. Any of these sizes may be equipped with fused extinguisher and explosion proof motor for dry cleaning operation. Single, double or quadruple coils available. 42" x 42" size available only with double or quadruple coils.

TWIN CYLINDER TUMBLER

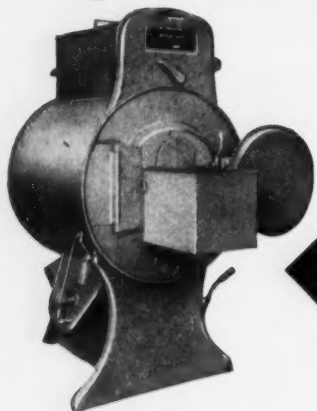
This compact unit will dry the smaller fluff dry bundles such as towels, diapers, and similar small batches, more efficiently than they can be tumbled in larger machines. Each of the two 26" x 24" cylinders, set one above the other in a vertical housing, has a capacity of 15 pounds (dry weight). Drying time approximately 20 minutes. Substantially saves on floor space and tumbler investment. Heat resistant glass doors, door safety switch and large built-in lint trap, standard equipment.



FEATHER RENOVATORS

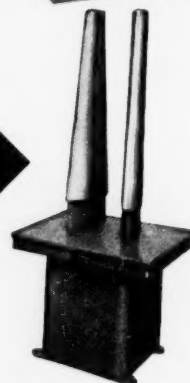
Model A (Illustrated)—Cleans, restores and revitalizes pillows that are flat, lumpy and lifeless. Provides a proved source of additional volume and profits for your business. About 7 processing bags filled with feathers can be processed at one time. Model A Feather Renovator can also be used as a regular 4-coil laundry tumbler.

Model B—with separate Transfer Unit—The Huebsch Feather Transfer Unit, which comes with Model B, transfers feathers from ticks to processing bags, and from processing bags back to the ticks after the feathers have been cleaned and the ticks washed. Thus the Renovating Machine can be used full time for steaming and drying feathers, with no time lost in the transferring process. Can also be used as a regular tumbler.



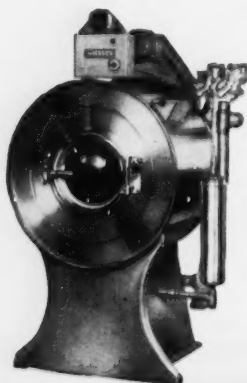
DOUBLE SLEEVE

Shaped to fit the largest variety of sizes. Combination of double taper and notched edges produces better and faster work than any other method.



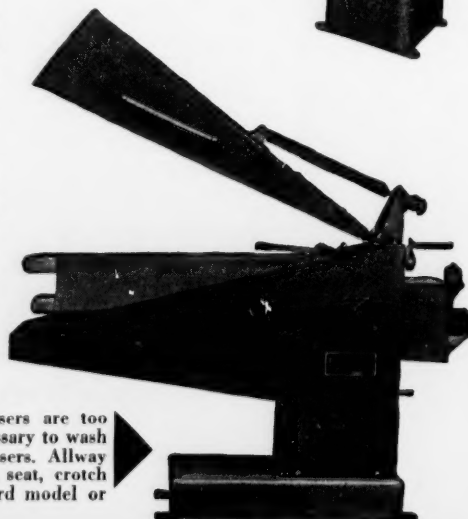
OPEN-END WASHER

New in the Huebsch line of time-tested equipment is the Open-End Washer. It has a 37" x 18" automatic reversing cylinder with a rated capacity of 50-pounds and is powered by a ¾ horsepower electric motor. Built of stainless steel with glass door for full visibility. Accessories for converting to semi-automatic operation and timer-operated outlet valves are available.



ALLWAY PANTS SHAPER

Goodwill and business is lost if trousers are too short or too tight. Cleaners find it necessary to wash larger percentage of regular suit trousers. Allway resizes and shapes length, calf, thigh, seat, crotch and waistband. May be had in Standard model or with fan and steam coil unit.



QUALITY EQUIPMENT FOR LAUNDRIES and DRY CLEANERS



FORM-RITE COLLAR SHAPER AND IRONER

Gives quality appearance and maximum comfort. Because the collar is most important, Form-Rite is the most important machine in your shirt line.

CHIEF HANDKERCHIEF IRONER

Low initial cost—Quantity production—Quality finish—Economical operation. Produces perfect work because handkerchief or napkin is completely straightened and squared on the pad before it is ironed. Shown is the 20 inch model for handkerchiefs or small napkins only, and is complete with Discovery Fluffer mounted on Ironer. Also available, 25 inch model, air rotated or manually rotated for all sizes of handkerchiefs and napkins.

ROOT GARMENT BAGGER

Keeps your bagging up to the minute . . . eliminates drivers waiting. Adjustable rod accommodates longest garments. Easy to swing longest bag off of bagger. Model with racks for holding garments to be bagged also available.

SPRING-TYPE-FILTER

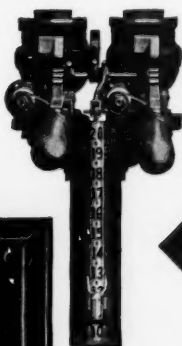
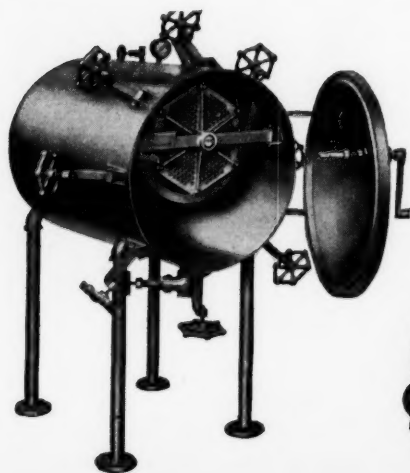
Cuts costs and improves dry cleaning service. Sturdy, compact unit illustrated is fast, efficient, and economical. Easier to clean and maintain. Has rated capacity of 2,000 gallons per hour. If greater capacity is desired, two filters can be used side by side, or one above the other. Priced lower than conventional filters of comparable capacity.

GARMENT DRYER

Both large and small cleaners will find the garment dryer a very useful machine. Adjustable hanger rod accommodates unusually long evening gowns. Five adjustable clamps hold dresses at the bottom.

AUTOMATIC VALVES

Increases production . . . improves the work, saves time and money. Easy to open . . . close automatically. Sturdily constructed for heavy duty in 1½ x 2" Two-way; 2 x 2½" Two-way; 2½ x 3" Two-way; 3 x 4" Two-way. Also made in Three-way and Four-way for laundries and One-way for dry cleaners.



HUEBSCH MANUFACTURING COMPANY

3775 N. Holton St., Milwaukee 1, Wis.
Division of THE AMERICAN LAUNDRY MACHINERY CO.



CUMMINGS-LANDAU

makes the

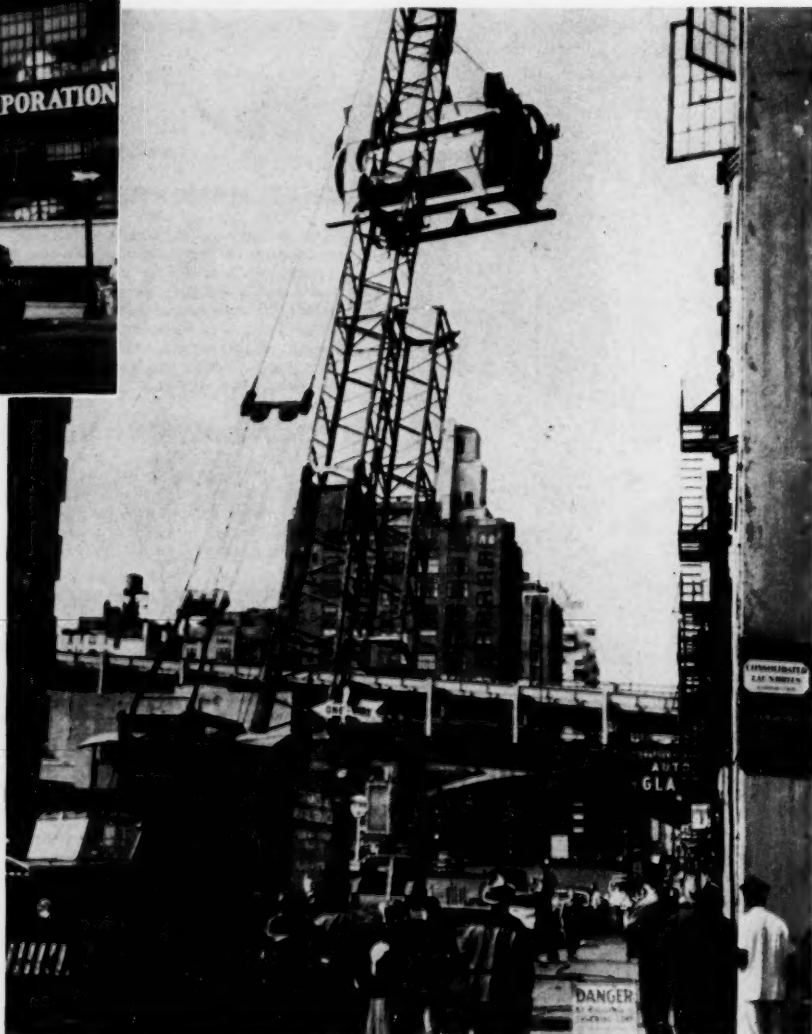
HEADLINES *again!*

WORLD'S LARGEST WASHERS DELIVERED!

Police closed off traffic for five hours recently on New York's East 62nd Street as Consolidated Laundries Corporation, world's largest laundriers, received delivery of four giant 10-ton washers, manufactured by Cummings-Landau. The story made front page news in the New York World Telegram and Sun and in last month's STARCHROOM LAUNDRY JOURNAL.

Cummings-Landau engineers worked in close cooperation with Consolidated's staff to design these super-efficient giants, each capable of handling from 1400 lbs. to 1700 lbs. depending on type of material washed. Each cylinder measures 64" x 126"! Eighteen small washers were scrapped to make way for the four new ones. Result: more floor space plus a five-ton daily production increase with a 40% saving in water and supplies!

Cummings-Landau equipment can bring added efficiency to your plant. Nothing finer is made!



MANUFACTURERS • DISTRIBUTORS • ENGINEERS • REBUILDERS

CUMMINGS-LANDAU
LAUNDRY MACHINERY CO., INC.
 305-17 Ten Eyck Street, Brooklyn 6, N. Y.

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STOP THOSE LEAKS!



LOSING TAGS?

Tags that tear, disintegrate or shred in processing mean lost dollars. **TAGS MADE OF PERMAFIBER STOCK** defy the strongest solvents and solutions; won't tear or scuff in work; won't break at fastening point; and they stay with the garment from start to finish.



INK BLURRING?

TAGS MADE OF PERMAFIBER STOCK have a new, non-oily, extra-smooth surface that takes ink more swiftly and holds it indelibly . . . identification as constant and reliable as a finger-print. Clear markings on flat, uncurled tags save precious hours of sorting time.



COLOR RUNNING?

TAGS MADE OF PERMAFIBER STOCK come in *Nine Bright, Beautiful Colors* that absolutely **WILL NOT "BLEED"** . . . no danger of ruining garments with running tag colors, no matter what solutions you use. And these distinctive colors give you the most efficient "signal" system!

Stop watching those dollars go down the drain! If faulty tags are costing you money in garment replacements, wasted labor and customer irritation, do what hundreds of America's most efficient plants are doing . . . insist on

MARKING TAGS

made with

Permafiber
TAG STOCK

The last word in Laboratory-Engineered Tag Stock . . . Scientifically Formulated and Control-Tested to stand up under all Laundering and Cleaning conditions . . . dry or wet; to stay flat, flexible, unblurred and color-fast despite the strongest chemicals and solvents. The complete dependability of **TAGS MADE OF PERMAFIBER STOCK** saves wasted time in marking and sorting, and provides the nearest thing to an iron-clad guarantee that you will lose neither garments nor customers! Don't gamble with your profits; don't settle for less than the best when the best actually costs you less. Follow the leaders . . . test **PERMAFIBER** stock for yourself and you'll always specify **TAGS MADE OF PERMAFIBER STOCK!**

FOR SAMPLES AND NAME OF THE NEAREST PERMAFIBER JOBBER, WRITE



Permafiber Corporation

450 SEVENTH AVENUE
NEW YORK 1, N. Y.



26 types and 5,850 sizes —as near as your telephone

EVERY so often, a machinery maker comes to the Timken Company for help with a very special bearing application. Something, he's pretty sure, we've never encountered before.

Almost always, we're able to give him a pleasant surprise. In over 50 years of helping manufacturers with special bearing problems, all the while improving our designs, we've produced an astonishing variety of tapered roller bearings. So many sizes and shapes that the "new" bearing has usually already been designed and made by the Timken Company. So many that the "new" design problem has usually been already solved with the help of Timken Company engineers.

If the people who buy the machines ever have

occasion to replace a Timken® bearing, they get the same kind of pleasant surprise. Even when a machine's very old, they can almost always get immediate delivery on Timken bearings for replacement.

Be sure that every bearing you use in the machines you buy or build is stamped with the trademark "Timken". The Timken Roller Bearing Company, Canton 6, Ohio. Canadian plant: St. Thomas, Ontario. Cable address: "TIMROSCO".

TIMKEN

TRADE-MARK REG. U. S. PAT. OFF.

TAPERED ROLLER BEARINGS

NOT JUST A BALL ○ NOT JUST A ROLLER □ THE TIMKEN TAPERED ROLLER □ BEARING TAKES RADIAL (R) AND THRUST (T) LOADS OR ANY COMBINATION (RT)

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Your choice of time-saving, low-cost power—the famous 106-h.p. Truck V-8 or Low-Friction 101-h.p. Cost Clipper Six with overhead valves. Deluxe (illustrated) at extra cost.

America's smartest half-ton panel is your smartest buy!

Inside and out, this all-new Ford F-100 Panel is designed to help you deliver more merchandise, at less cost, with greater ease and safety. And its handsome looks are bound to build prestige for any business.

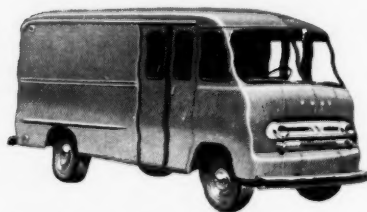
Long, high and wide, the F-100 Panel gives you up to 155.8 cu. ft. of load space for easy handling of

bulky items. Floor is solid plywood, impregnated for longer life and protected by steel skid strips. Body is sealed tight at joints of wheelhouse strips and side panels against dust, fumes and moisture . . . for the utmost in load protection. Stronger rear doors of heavy-gauge steel construction open fully or hold firmly at 90° open for easier loading.

You get a choice of two beautiful body types—the F-100 Panel

or the F-100 Panel Deluxe (shown) with 17 "customized" extras. Your choice, too, of V-8 or Six and five transmissions—including Overdrive and Fordomatic . . . the widest choice in the field.

For downright utility, sleek looks and the savings that come from rock-bottom running costs, you can't beat the all-new Ford F-100 Panel!



NEW FORD F-350 Parcel Delivery Chassis gives you more than double the load space of conventional light duty panels. Takes 7- to 11½-ft. bodies with up to 400 cu. ft. capacity. Comes with complete front end or as stripped chassis.

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BUILD YOUR PROFITS FASTER

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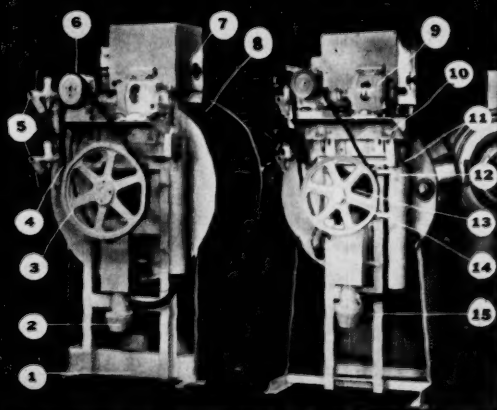
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Here's
Heavy-Duty Design
and Construction
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- OUTSTANDING WASHING ACTION. Equal reverse prevents tangling.
- PRODUCES Finest Work.
- SAVES water.
- FIRST WITH LARGE LOADING DOOR. Diameter, 18 inches; Area, 255 square inches.
- DURABILITY for years of trouble-free service.
- QUALITY COMPONENTS. Look at picture bottom left of the page. See for yourself how both the 25 and 60 lb. washers were designed even bigger and better than your own specifications.

60 and 25 Lb. CAPACITIES



- 1 Heavy Steel Base.
- 2 Auto Electric Dump Valve with Manual Control.
- 3 Pulleys—largest used on any washer—guarantees traction.
- 4 One Belt for 25 lb.; Two Belts for 60 lb.
- 5 Auto Electric Hot and Cold Fill Valves.
- 6 Geared Speed Reducer.
- 7 Top Mounting of Electrical Equipment.
- 8 Stainless Steel Shell, Cylinder and Base.
- 9 Reversing Motor.
- 10 Easy Belt Adjustment.
- 11 Belt Guard Enclosing All Moving Parts, Not Shown.
- 12 Auto High-Low Water Level Control.
- 13 Water Seal requires no adjustment or lubrication.
- 14 10,000 lb. water-proofed Seal-Master Ball Shaft Bearings.
- 15 Pin Trap protects dump drive.

SEE YOUR JOBBER

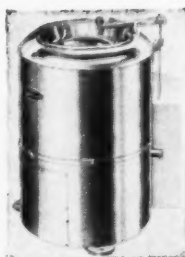
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It Works



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INEX the miracle rinsing aid...made the Short Rinse Formula possible. And it's an exclusive development of the Kohnstamm Research Laboratories!

INEX made old laundering processes obsolete overnight!

INEX makes the whitest whites you've seen in your life!

INEX gives results you can see in a single wash!



**HERE'S A PROPOSITION
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It's simple! It's amazing! It's what you need to pull the laundry business out of the doldrums...to more than satisfy your customers. This is a business proposition that never fails to work because there is nothing like it on the market today. Just read this three-step, can't lose proposition.

1. Try Inex and the Short Rinse Formula on your loads.
2. Examine the finished work and ask your customers to judge the difference too.
3. Compare the time each load took! Compare the savings in time, fuel, water and labor. If you're not surprised and excited by Inex and the Short Rinse Formula, we'll take back the materials and the trial will cost you nothing!

S.R.F.
lifts laundry
quality far above
any competition!



ADD UP YOUR SAVINGS

Savings on fuel

Savings on water

Savings on sewage disposal charges

Savings on water softening... salt equipment, regeneration

Savings on soap through adequate supply of soft water

Savings in time

Savings in labor

Savings in wear and tear on washwheels

Savings in production costs... more loads per day

Savings in customer goodwill... your best advertisement

...and they all add up to a BIG saving in DOLLARS!



EVEN THE MOST SKEPTICAL ARE NOW CONVINCED!

Inex is here to stay. It's proved itself the greatest washing technique advance of the last decade. Millions of pounds of work are now being laundered with Inex and the Short Rinse Formula every week, and the figure rises every day by thousands of pounds. There's just no arguing with success that shows in the very first load you try!



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These advantages are even more convincing in actual practice. We suggest that you look into the use of Columbia-Southern Perchlorethylene immediately. It is the sure way to greater profits and customer satisfaction. Our technical staff will be happy to offer recommendations and supply you with information. Write today.

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*Increase Sales Permanently
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\$ PREMIUM PLAN \$

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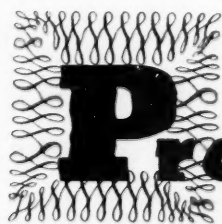
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24 Models and Price Combinations
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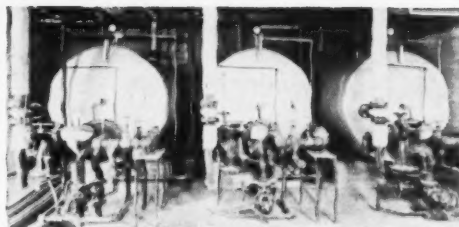
Production from 15 to 100—9 by 12
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Conveyor with the **7** FAMOUS Features

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when your water runs hot to cold better call **p-k** for a new look at your hot water supply

ENOUGH clean, hot water when needed is vital for people or processes—utility services or plant operations. You get dependable hot water supply with a balanced installation of **p-k** hot water storage heaters.

Proved in long-time service in thousands of installations—in laundries, hotels, institutions, commercial buildings and general industry—**p-k** hot water storage heaters are the most dependable your money can buy—to save you money. This dependability and overall efficiency is bred from decades of concentrated experience in designing and building storage heaters and other

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To the Laundryowner

For as long as you can remember, you have bought neutral soap and alkali to use in your washwheels. You feed them dry to the wheel, or you mix them in a tank. For more soil, you use more alkali — for less soil, less alkali.

Sort of like baking a cake. You "sweeten it to taste" — and, like making a cake, sometimes it comes out perfect, sometimes just fair.

This is the way it has always been done. But you, as a laundryowner with an open mind, know that progress is inevitable. You welcome it. You seek it yourself. And when you find it, you use it to benefit your business, your employees, your customers.

That is why we address this message to you. So you will be the first to know that just such important progress *can take place in your industry!*

And it has!

Because now, crowning 12 years of intensive research and development, comes a washing product which, in one stroke, makes all others obsolete.

One complete product that washes clothes brilliantly clean *regardless of the degree of soil* in hot or cool water.

One complete product that actually "job-rates" itself to the type of soil in the load.

One complete product that actually fires repeated barrages of reserve alkali washing power (OH) into the load when needed, *but only when needed.*

One complete product that eliminates *both over- and under-alkalinity.*

One complete product that actually gives you *more mileage per pound* for cleaner washes.

One complete product that actually washes clothes *15% brighter to the naked eye than ever before.*

Yes . . . all this in one new product: New PRIME SOHP with SHOCK-TROOP ACTION.

Sound like broad claims? Perhaps . . . but let us reassure you. No manufacturer has ever been better able to *prove* his case. For these are not claims at all, but the concrete results of plain, shirtsleeves chemical research.

Certainly we do not expect everyone to understand how *one* product can do all these things. But we can tell you this: New PRIME SOHP with SHOCK-TROOP AC-

with an Open Mind

TION is no mere mixture of tallow soap and alkali. It is 12 chemically-balanced built soaps in one, welded together in a perfect union by homogenization in a giant spray tower four stories high.

Do not be fooled! No one neutral soap and alkali can do all these things. And no ordinary built soap can, either!

For only through the chemical balance of the New PRIME SOHP formula, can SHOCK-TROOP ACTION be achieved. Only with such a formula can reserve alkali washing power be built in . . . built in to be released when needed, but only when needed!

This is the priceless ingredient in New PRIME SOHP. This is why we can say: New PRIME SOHP with SHOCK-TROOP ACTION washes clothes 15% brighter to the naked eye than ever before — regardless of soil.

What does this mean to you? The benefits are clear: more uniform, more perfect washes than ever before; fewer fabric damage claims; an end to grey work; more satisfied customers; fewer lost customers. With New PRIME SOHP your volume and your profits must logically rise.

And it's a cinch to use! Your washman simply sprinkles PRIME SOHP into the wheel until a good running suds appear. That's "Signal Suds". When the washman sees it, he knows that he has exactly enough soap and active alkali (OH); for a perfect washing job. Then you're sure of clean, sparkling washes every day.

We ask you to call your jobber now for a trial order. Try New PRIME SOHP with SHOCK-TROOP ACTION in your wash-wheels.

New PRIME SOHP with SHOCK-TROOP ACTION is guaranteed to live up to every claim we have made for it. If for any reason you are not 100% satisfied, you have lost nothing. For it is sold with an unconditional money-back guarantee.

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New INTERNATIONAL RM-120 Series, GVW ratings, 5,400 to 6,600 lbs. 7 $\frac{3}{4}$, 9 $\frac{1}{2}$, or 10 $\frac{1}{2}$ -foot body lengths,

standard or flatback styles. 102, 115, or 122-inch wheelbases. A variety of racks and special laundry equipment available.

The multi-stop leader cuts your delivery costs 7 ways

Owners' cost records have made INTERNATIONAL Trucks with METRO® bodies the multi-stop sales leader for 15 years. Here's why these INTERNATIONALS will reduce *your* delivery costs—

- **More payload space** on short wheelbase chassis. Extra payload space for peak load periods cuts down number of trips per truck.
- **Faster loading.** New METRO models have full six-foot interior height and lower loading level.
- **More maneuverable** short chassis saves drivers time in traffic and on their routes.
- **Less garage space needed.** Shorter wheelbase and compact design save garage and dock space.
- **"Driver-engineered" for comfort.** You get more productive work from drivers with time and energy saved.
- **All-truck construction.** You get the chassis stamina, engine power, and operating economy for which INTERNATIONALS are famous.
- **Lowest maintenance costs.** METRO body construction has an unsurpassed record of long life with unusually low maintenance cost.

Ask your INTERNATIONAL Dealer or Branch for a demonstration. Time payments arranged.

COMPARE THESE NEW INTERNATIONALS WITH ANY OTHER MULTI-STOP TRUCK

More payload space. Eight body sizes, two body styles—standard or flatback. Four body lengths—7 $\frac{3}{4}$, 9 $\frac{1}{2}$, 10 $\frac{1}{2}$, and 12-foot; each has increased capacity. New capacities range from 243 to 392 cubic feet.

New Driver convenience. New full 6-foot headroom. Low stepwells. Sliding front doors standard, folding doors optional. Six rear door options.

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New Savings. New downdraft carburetion for greater fuel economy. New cushioned disc clutch for longer life, smoother operation.

Six Chassis Models, 102, 115, 122, and 134-inch wheelbases. GVW ratings, 5,400 to 11,000 lbs.

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90% TO 96% RECLAMATION!
Look at some of the features
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Heavy, rugged construction. Correct design. Heating coil on TOP, condenser coil on BOTTOM—the logical way! Cast aluminum door won't warp and it's BIG — quick to load and unload. Two motors—permit exhausting while loading and unloading. No noisy chain drive.

Solvo-Misers are built for long life and trouble-free operation. (Guaranteed, of course, for a full year!) Just look at the stainless steel condensing box — heavy duty gear reducer — motors protected against overload.

LOOK! It's a cinch to clean this Lint Trap — a matter of seconds. And don't forget, a clean lint trap means fast, high reclamation.

On the QT, Big Boy, I've seen these Solvo-Misers used with all types of cleaning machines ... two-timing, eh?

This firm "sticks to its knitting" — specializing in Drying Reclaimers: its Solvo-Misers are tops in performance and, of course, lowest in price!

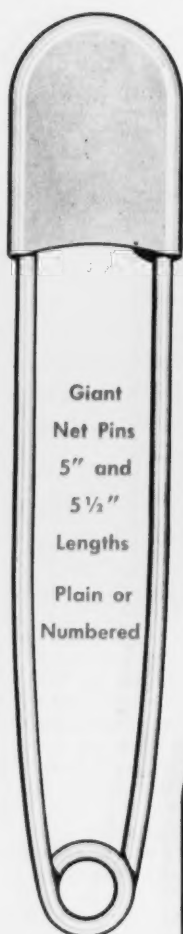
MODEL A — Cap. 20 lbs. \$1095.00
MODEL B — Cap. 30 lbs. 1195.00
MODEL C — Cap. 40 to 50 lbs. 1295.00

HOYT

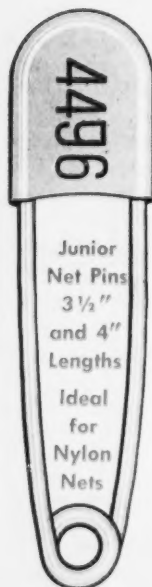
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We'll Be There
EXHIBIT BOOTHS 339-340

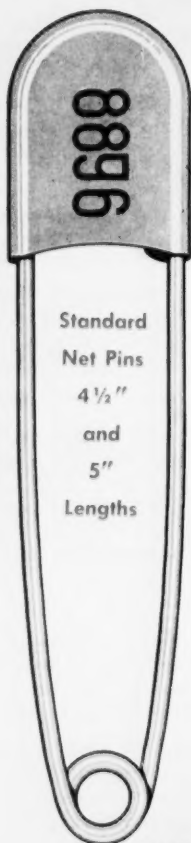
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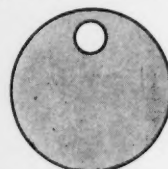


Alrite Pin Trays. Sets of
30 numbered pins for full
identification.

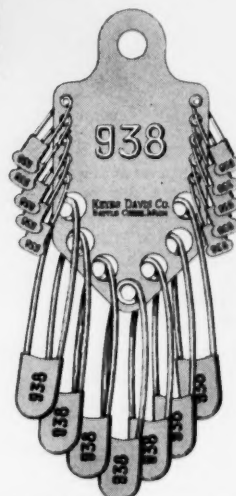
Davis Overall Tags



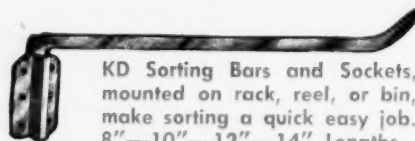
Permanent brass tags for uniforms, overalls, work clothes, tarpaulins. Will not snag or come off. Attach anywhere on garment.



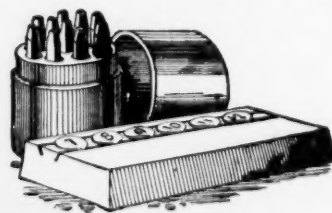
Brass Tags and Checks of many sizes and shapes. Plain, lettered, or numbered to your needs.



KD Standard Pin Carrier with pins for nets and single pieces. Identifies the bundle.



KD Sorting Bars and Sockets, mounted on rack, reel, or bin, make sorting a quick easy job. 8"—10"—12"—14" Lengths.



KD Hand Numbering Sets for on the spot numbering of fill-ins, extra pins and tags. Every laundry should have one.

Write for our latest catalog of pins and equipment, 110 - 14th Street, Battle Creek, Mich.



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ENDURO'S
"Cleanability"
 means
Extra Loads
Per Year

WASHERS, EXTRACTORS, DRYERS, and other equipment made of Republic ENDURO Stainless Steel respect your rising "break-even" point.

It's as simple as this: the less time you have to take out for cleaning up equipment, the more time you'll have for production . . . those vital "extra loads per year." And, ENDURO is easy to clean and to keep clean.

You see, ENDURO stubbornly resists the action of commonly-used washing compounds. It resists rust and corrosion, refuses to tarnish or blacken. Stainless steel through and through, it has no surface plating to chip, peel, or wear away. It resists abrasion, denting, and scratching. Scum and residue slide off . . . flush away with a rinse and a wipe. Even unskilled help can keep ENDURO laundry equipment bright and shining.

ENDURO respects your "break-even" point in its long life and resistance to damage, too. When you invest in ENDURO you're cutting maintenance and replacement costs to rock bottom. Your equipment supplier can tell you more economic facts about ENDURO Stainless Steel equipment; or, write:

REPUBLIC STEEL CORPORATION

Alloy Steel Division • Massillon, Ohio

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or write Republic Steel, Dept. K, Cleveland 1, O.

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It's the ORIGINAL
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Callaway Knitted Nylon Callanet!

CALLAWAY—*first with the best!*

For economy's sake—compare our laundry net prices by weight. They are the answer to your "net" problems.

Available in solid colors.

Contact your Callaway Representative for details of **CALLANET**—the laundry net that's made the way *you'd* make one.

PROFIT BY THESE SUPER CALLANET FEATURES!

1. Streamlined, lightning-fast pinning.
2. Day-light mesh that won't "fog up"—lintless.
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8. More pounds per wheel—bigger pay loads.
9. Labor saving—time saving—space saving.
10. Long lasting—dollar saving.
11. Made by pioneers in net manufacturing.
12. Available in solid colors.



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since we changed"
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NON-CONGEALING ... USE HOT OR COLD
GIVES FLEXIBLE FINISH ... EASIER IRONING

- Clinton Laundry Starches give you quick boiling and fast penetrating action
- Planned, processed and manufactured to meet top-quality standards.
- Contain no chemicals to cause discoloration or weakening of fabrics.
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CLINTON SUPREME STARCHES
always smooth like a summer breeze



CLINTON FOODS INC.
CLINTON, IOWA



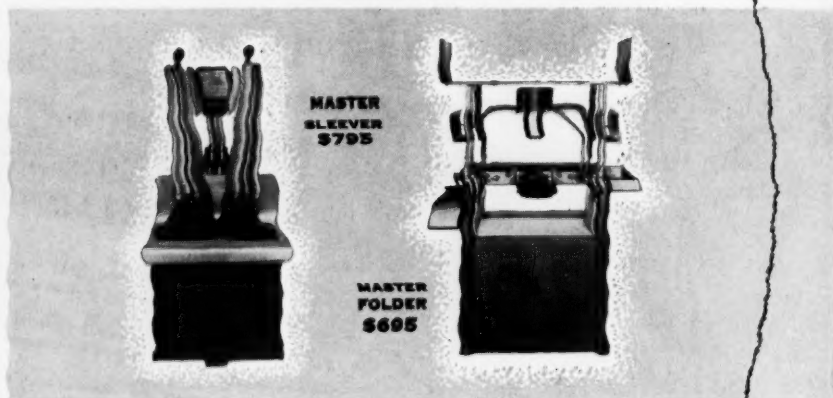
JUST

96 seconds of your time

MAY SAVE YOU HUNDREDS . . . YES,

THOUSANDS OF DOLLARS NEXT YEAR

Progressive Laundries in every State of the Union and in many foreign countries are enjoying the experience of better quality in their shirt finishing and at the same time saving up to 30% on operating costs. It is the Forse Master Sleever and the Forse Master Folder that automatically produce these savings plus Forse Engineering that tells you how to change over to a faster and more efficient Shirt Finishing Unit. You, too, can enjoy these savings. For full information on Forse Equipment, send in the coupon, today!



Forse

EQUIPMENT CORPORATION

Anderson, Indiana

Forse Equipment Corporation
Anderson, Indiana

Please send me, without obligation, the complete money-saving story about the Forse Master Sleever and the Forse Master Folder.

NAME.....COMPANY.....

ADDRESS.....CITY.....STATE.....

Improved Packaging

at Lower Cost



WITH
QUIK-PAC

Here's what QUIK-PAC will do for YOU!

ECONOMIES UP TO 50% Elimination of shirt boards plus lower per unit cost than boxes mean big savings. Two thirds of gummed tape eliminated compared with wrapping.

SPACE SAVING Bundles are square cornered and compact. Pile as high as you want without fear of crushing or tumbling on shelves or in truck. Use less space.

SAVING IN TIME Load four to six packages per minute. Save in labor cost, packaging congestion, and packers efficiency.

STURDIER PACKAGES Heavy duty materials plus tight wrap mean no bursting or crushing. Customer receives his shirts in the same condition they left the finisher's station.

- **RE-USE BY CUSTOMERS** Your customer always has on hand a heavy weight kraft bag in which to send you his soiled laundry.
- **FOR ADVERTISING** Overall or face printing on a wide variety of colored bags at reasonable cost. You can have the most attractive package for less.
- **IDEAL FOR PACKAGING** In all respects, **QUIK-PAC** is the answer for maximum ruggedness and attractiveness at the lowest cost per shirt packaged.

QUIK-PAC, Inc., Division

TRADE MARK REG.

U. S. PAT. No. 2,640,638 CAN. PAT. No. 491,065

H. Wesley Hutchins Co.

AUBURN - MAINE

H. Wesley Hutchins Co.
Auburn, Maine

If you are interested in better and lower cost packaging, fill out below and let us send you more information.

FIRM.....

ADDRESS.....

CITY.....

OUR JOBBER IS.....

BY.....

Elgin Engineering gave them **6** times more soft water from existing water softening equipment! . . .

"We were regenerating fifteen times a week in order to get enough soft water for our needs from our double unit water softener equipment," writes William Ahasic, laundry manager, Aurora, Illinois. "Since remodelling, we now regenerate each softener only once a week. We consider the saving in both time and material very worthwhile."

Due to expanding facilities, far more soft water was required than could be economically produced by this water softening equipment. Here's how Elgin engineers solved Mr. Ahasic's problem:

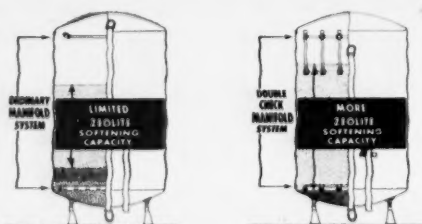
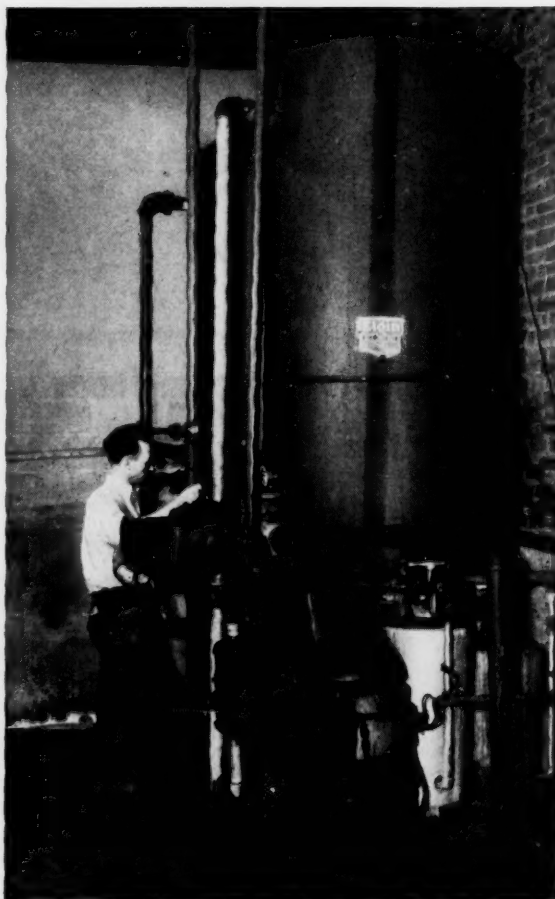
First, the original upper and lower manifold systems were replaced with new Elgin "Double Check" manifolds. The "double check" system permits the softener to carry far more zeolite, while at the same time it prevents escape of the valuable softening material. The lower manifold design eliminates the need for a graded gravel supporting bed.

Second, the old greensand zeolite was replaced with Rezex, Elgin's high-capacity resinous zeolite. By those two simple steps, Elgin engineers turned a low-capacity water softener into a completely revitalized unit — capable of producing six times more soft water than ever before!

Money and time-saving results were noticed immediately. Many hours were saved in regeneration. Salt costs, too, were appreciably reduced. Furthermore, an adequate supply of soft water was assured for laundry, boiler and general purposes.

Solving your problem . . .

Elgin engineers are ready and waiting to help solve your water softening problems, too. Whether your problem is parallel to that of this laundry or whether your present softener equipment is inadequate for its purpose, Elgin has the answer.



Shallow zeolite bed of ordinary water softener design (at left) gives limited output of soft water. Softener at right is equipped with ingenious "double check" manifold system which permits addition of far more zeolite. This greatly increases soft water output.

Get the facts . . . about Elgin Water Softening equipment. Be sure that your supply is adequate — for now, and for the years ahead. Let us put our nearest engineer in touch with you.



ELGIN SOFTENER CORPORATION, 150 N. Grove Ave., Elgin, Ill.

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Fits every size buck
"JOMAC[®] 54"
SCORCH-RESISTANT PADDING



Use it on *all* your presses—collar and cuff presses, body presses and bosom presses. Its thousands of loops spring up after every operation, permit steam to flow uniformly through the entire padding. "Jomac 54" resists scorching, is highly absorbent, and uniformly porous. It is guaranteed to out-

wear double-faced flannel.* It will save from 25% to 40% of your press padding costs and up to 75% of your pad-replacement time. "Jomac 54"—a full 54 inches wide—fits any size buck. Sold by better laundry suppliers everywhere. Write for literature and the name of your nearest supplier.

**Money back if "Jomac 54" doesn't outwear double-faced flannel*

→ A FULL 54 INCHES WIDE ←

C. WALKER JONES CO., PHILADELPHIA 38, PA.

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metso detergent

*... helping
hand
for your
formulas*



From first contact in the break, Metso helps to speed-up wetting of the load. Use Metso Detergent as the extra alkali in the break or by itself, either dry or in solution.

For suds operations, Metso acts as a boost to your soap in its work on acid soil. Then when it comes to soil removal Metso holds soil suspended preventing re-deposit on the clean load. Metso Detergents keep tensile losses low—tests are well under A.I.L. standards.

PHILADELPHIA QUARTZ COMPANY

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• Free: Wall charts for writing in formulas to help your washwheel attendants.



metso® detergents
PQ SOLUBLE SILICATES

YOU'RE PAYING FOR THIS— WHY NOT OWN ONE?



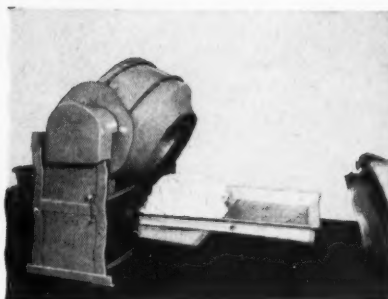
NEW 48 "BIGMOUTH." Note 32" Opening.

PURKETT "BIGMOUTH" TUMBLER REDUCES COSTS!

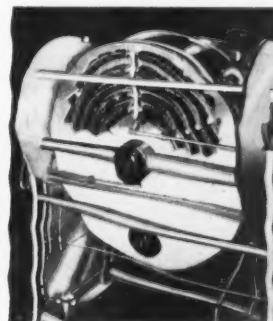
Often pays for itself . . . in less than a year!

FEATURES

- ★ ENORMOUS CAPACITY
- ★ NEW LARGER LOADER TUB
- ★ OPERATES REVERSING
- ★ WARMS THE GOODS WHILE TUMBLING
- ★ ELIMINATES HAND-SHAKING
- ★ LOADS, UNLOADS NON-STOP



WORK AUTOMATICALLY DELIVERED
TO FEEDER TABLE



NOTE: NO BLOWER, AIR
DUCT OR SCREENS

HERE'S HOW YOU CAN BENEFIT

Increase profits overnight; often pays for tumbler in less than one year with savings. The most efficient tumbler on the market today with its enormous capacity, automatic reversing, steam coils and big loader tub.

A Kansas City laundry eliminated two of the regular flatwork crew, yet produced usual volume in one hour less per day! Apply these savings to your plant!

PURKETT OWNERS SAY—

"We consider our Purkett 'Bigmouth' to be an important factor in enabling us to show a profit in these days of rising costs."

—PJR, Ballston Spa, N. Y.

"Savings show close to one-half time by conditioning our work through the Purkett 'BIGMOUTH' instead of old method of simply shaking direct from extractor."

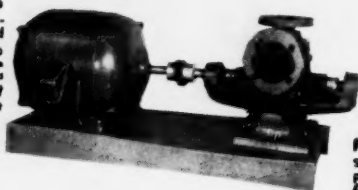
—EO, Washington, D. C.

Write for complete information on all models today to any major laundry machinery company . . . or

PURKETT MANUFACTURING CO.
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Schaub Master-Bilt Pump
Ball bearing turbine-type. Hydraulic and dynamic balance. No periodic maintenance needed. Install a Schaub Master-Bilt pump, then forget about it.



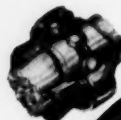
Permanently Lubricated Ball Bearings—

No more greasing. Grease is sealed in and dirt is sealed out for the lifetime of the pump.



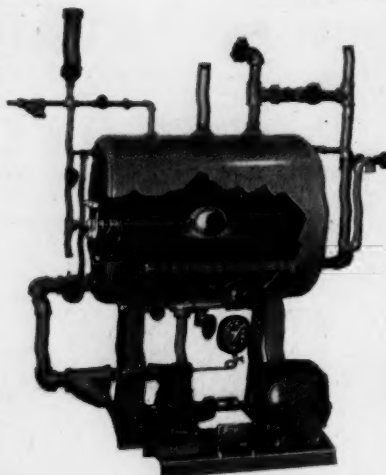
Fleximatic Shaft Seal—

Simple 2-piece assembly provides leakless trouble-free operation. No more water spray. No more shaft scoring. No more pump packing.



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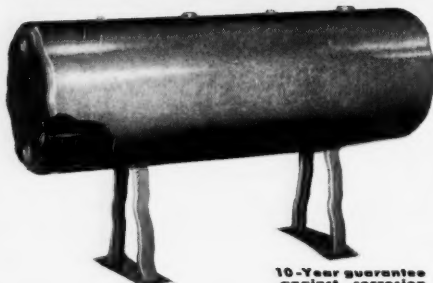


**Ultra-Dependable Magnetrol
Boiler Water Level Control—**
Combination pump control and low water safety cut-off.



—Schaub Systems use only the proven, friction-free Magnetrol for continuous boiler safety. No bellows to stiffen, no packing to bind, no tricky electrode circuits to fail. **BOILER SAFETY KNOWS NO PRICE.**

All models approved by
Underwriters' Laboratories,
Inc.



Schaub engineers worked with leading chemical researchers to develop Chromosoid lining. You're safe from costly premature replacements. No more rust-clogged systems. The electrolytic corrosion inhibitor protects unlined steel pipes.

10-Year guarantee
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You'll Put Your Money On

**SCHAUB
BOILER RETURN
SYSTEMS**

There is a great deal more value in a return system when it is completely engineered to do the job right. Consider, for instance, how tremendously important is the boiler control that both operates the electric feed pump and doubles as the low water safety cut-off on your boiler. Should this automatic control fail just once, you are wide open for boiler failure and plant shutdown, to say nothing of the hazard of boiler explosion.

If the only advantage a Schaub System gave you was its supremely dependable Magnetrol boiler control, it would be hard to over-estimate its extra value. Why? Because only Magnetrol's tireless, friction-free operating principle—with no bellows to stiffen or rupture, no packing to bind, no hyper-sensitive electrical circuit—gives continuous safety. And boiler safety knows no price.

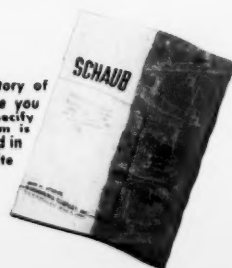
But that's not all—with a Schaub System you also get exclusive maintenance-free Master-Bilt pumps and corrosion-proof Chromosoid lined receivers. When you buy a Schaub System, the least difference is the difference in price.

FRED H. SCHAUB ENGINEERING COMPANY, INC.

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The complete story of how much more you get when you specify a Schaub System is quickly presented in Catalog 55. Write for it now.



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ONLY**Fletcher****OFFERS SUCH A COMPLETE
LINE OF EXTRACTORS****Fletcher JUNIOR**

SIZES* 30" 70 LB.
33" 110 LB.
36" 130 LB.

This popular model is designed to fit the needs of the average medium size establishment. Safe for all materials. Minimum floor space. Extremely stable up to ten pounds out of balance.

Fletcher WHIRLWIND

SIZES* 40" 160 LB.
48" 250 LB.
60" 400 LB.

The glass-smooth interiors cannot harm fabrics. Deep stainless steel baskets offer maximum capacity for their diameters. Ruggedly built for high speeds—up to 1,200 R.P.M. Built-in safety features.

**Fletcher TWINTAINER**

SIZES* 50" 325 LB.
54" 400 LB.

Twin container trucks are removable from extractor for loading and unloading automatically through the bottom. One set of baskets may be loaded while another is spinning—cuts time by 67%. Saves labor.

*Dry weights given are for general laundry work.

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221 GLENWOOD AVE. - PHILADELPHIA 40, PA. ESTABLISHED 1850

For the best in
CANVAS
Washroom Trucks

LOOK
FOR

Lane



Designed especially for wet-work handling, only this Lane Style 69W Washroom truck incorporates all these quality features for long, dependable service at very low cost:

- Waterproof, mildew-resistant body of heavy Lane-woven duck—impregnated with vinyl plastic, stitched with Nylon.
- Light-weight, extra-strong, non-rusting frame.
- Convenient, easily-controlled, flexible drain.
- Over-size casters for easy handling of load.

STANDARD SIZES AVAILABLE

| No. | Long | Wide | Deep | Total Height |
|-----|------|------|------|--------------|
| 2½ | 24" | 15" | 15" | 30" |
| 3 | 24" | 18" | 16" | 30" |
| 4 | 30" | 18" | 16" | 30" |

Lane canvas baskets, hampers, and trucks are built to take it, built to last! There are many canvas baskets, but there's only one Lane. Always look for the LANE mark — to be sure! See your distributor or write . . .

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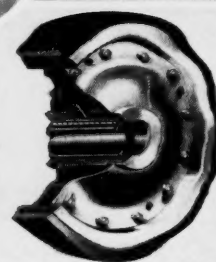
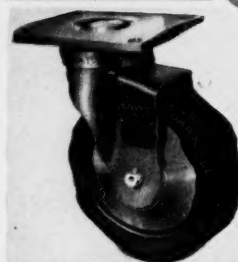
Canvas Basket Craftsmen Since 1894

Lane



W. T. LANE & BROS., INC., Poughkeepsie, New York

Darnell Casters & E-Z ROLL WHEELS



Always

SWIVEL and **ROLL**

Darnell Casters and Wheels start cutting costs from the very first day of installation. Easy rolling and swivelling increase employee efficiency, save floors and help add to production. With over 4000 types of casters and wheels to select from you can specify the exact model to meet your requirements.

FREE Darnell Manual



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Now...

invisible
marking

at low
investment



FANTOM-BANTAM

The world's only method of invisible marking, National's FANTOM-FAST, now has an offspring... The Fantom-Bantam unit! Ideal for shirt identification and bachelor bundles, a must for the small laundry. Manually operated; contains 6 type wheels, each with full alphabet and numerals 0 to 9. Characters about twice as big as regular black ink marks. Every plant has its own symbol.

Write
today
for
bulletin.

THE **National** MARKING MACHINE
COMPANY

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SANI-TOP DIAPER PAILS



Standard with
all Diaper Laundries

PORCELAIN RUSTPROOF CONTAINERS NOW HERE!

Patented SANI-TOP Diaper Cans are standard equipment with diaper services from coast to coast since 1936.

NEW SANI-TOP PORCELAIN PAILS ARE NOW A LIFETIME PAIL WITH REASONABLE CARE.

Painted and enameled pails rust and soon become junk... ruin diapers and bags with rust, no matter how many coats of enamel.

NO RUST STAINS ON BAGS AND DIAPERS IF YOU USE SANI-TOP RUST-PROOF PORCELAIN PAILS.

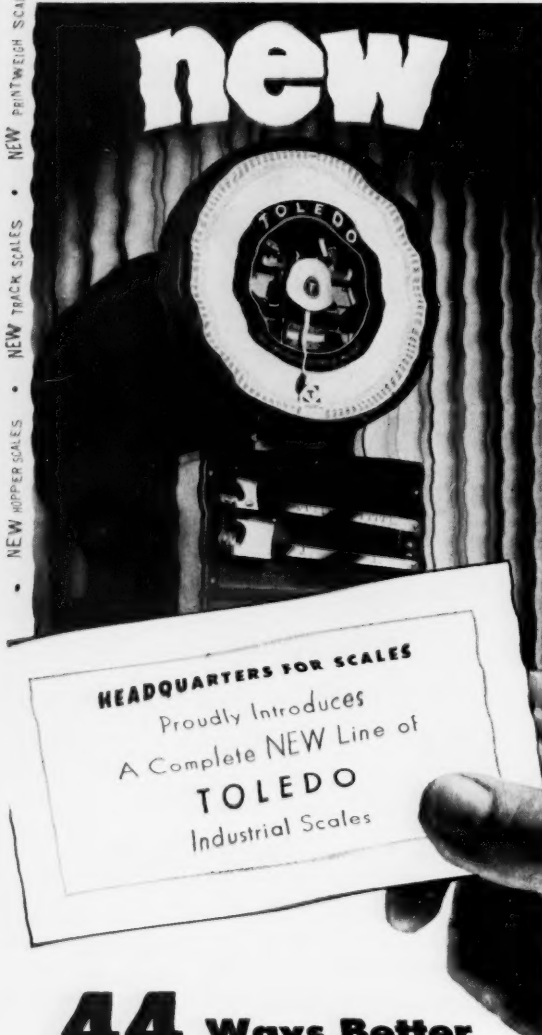
We make the patented SPRAY TYPE and CAMPHOR CAKE TYPE SANI-TOP Diaper Pails.

We manufacture the "SOFTEY" DIAPER for DIAPER SERVICE.

SANI TOP

STEPNEY DEPOT, Conn.

NEW PORTABLE SCALES • NEW COUNTING SCALES • NEW FLOOR SCALES
 NEW PINCH SCALES • NEW WOOD TRUCK SCALES • NEW MILK RECEIVING SCALES • NEW OVER UNIFORM SCALES • NEW FLOOR SCALES
 NEW HOPPER SCALES • NEW TRACK SCALES • NEW PINTWEIGH SCALES



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 Proudly Introduces
 A Complete NEW Line of
TOLEDO
 Industrial Scales

44 Ways Better

A great new line of Toledos! 44 new features are now added to the traditional accuracy and dependability of Toledo Scales including—double pendulum mechanism in one-piece sector design . . . dial installed to face any of eight directions . . . new clean-line design with handsome gray finish. Complete range of types and capacities. Get your scale information up-to-date . . . write today for the new condensed catalog No. 2001.

Toledo Scale Company,
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MODEL 2081
 LAUNDRY
 SCALE
 with Laundry Pan
 and adjustable
 wheeled stand.

TOLEDO®

Today
 more than ever

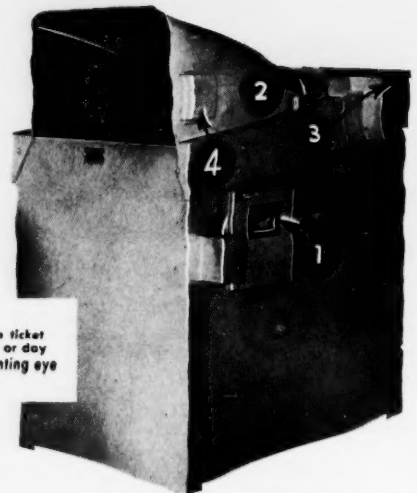
HEADQUARTERS FOR SCALES

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Linen, Towel, Diaper Suppliers!

STOP COSTLY ERRORS

SPEED LINEN COUNTING



1. Count recorded on ticket
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3. Tamper proof counting eye
4. Ticket holders

Current: 110V—220V, A.C.—D.C.
 Overall Size: 42" L—27 1/4" W—49 1/4" H
 Feeding Height: 37 1/4"

EASTERN CYCLONE ELECTRONIC COUNTER

Motor driven, Electronic Eye, Self-Aligning Feed Ball of Neoprene, Sturdy Angle-Iron Frame and Metal Housing, Automatic Ticket Stamping Unit, Automatic Visual Counter.

SPECIFICALLY designed for the supplier who is gearing for absolute accuracy and speed in the sorting and counting of linens, towels, diapers and large quantity items.

The EASTERN CYCLONE ELECTRONIC COUNTER is a compact, rugged, tabulating machine that simply plugs in. The sensitive recording devices give you a running count, a total count for lot or day and a stamped count on the ticket.

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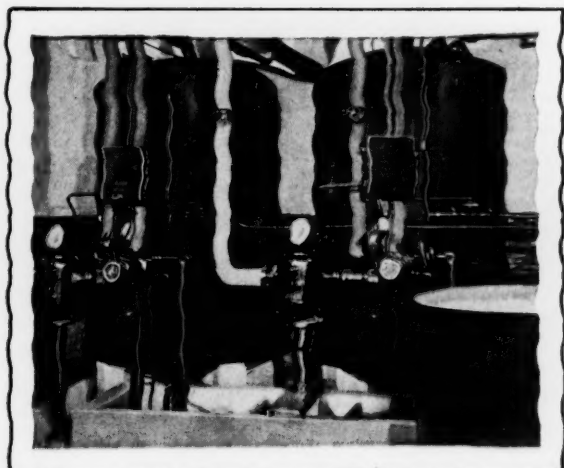
Write or phone us today.

EASTERN CYCLONE CONVEYOR SYSTEMS, INC.

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MANUFACTURERS OF SOAP MIXING & CIRCULATING SYSTEMS —
 LINT COLLECTORS — HOPPER-FEEDERS

BOOST CAPACITY of Your Water Softener



—with PERMUTIT Q!

Why not squeeze every drop you can out of your present water softener! A change to Permutit Q will do just that. This remarkable new zeolite softens more water in less time, and takes less salt for regeneration. Saves you time and money all the way around.

Additional savings in time and money can be made quickly and easily by installing automatic controls. This assures maximum efficiency without the possibility of costly human errors and at a great saving in man-hours of labor.

For a constant supply of clear, soft water you just can't beat the combination of Permutit Q and automatic controls.

For further information, write to THE PERMUTIT COMPANY, Dept. SL-9, 330 West 42nd Street, New York 36, New York or Permutit Company of Canada, Ltd., 6975 Jeanne Mance St., Montreal.

Water Conditioning Headquarters For Over 40 Years

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FOR LONGER SERVICE ...at less cost

Gold Line Laundry products are all specifically designed to give you superior work at a lower cost per hour. Our more than 50 years of experience in the production of mechanical laundry fabrics is your guarantee of getting longer service at less cost with Gold Line Fabrics.

LOGLIFE APRON CLOTH

LOGLIFE and Extra Heavy LONG-LIFE outwear conventional Duck by over 20%. The staple is longer and stronger—the weave closer and the cloth heavier—which means less stretch and fabric impression.

WASHMOR NYLON NETS

Washmor Nets are made of duPont's heaviest Nylon net yarn woven to our specifications and manufactured in our own plant. Special features include beaded edge for ease in handling, double pinning band and colored edges or solid colors for instant recognition.

BESTOS BINDERS AND COVERS

The patented protective asbestos assembly for flatwork ironer rolls that guarantees the lowest productive labor or material cost. The cover is separable from the semi-permanent binder so that replacement of cover or pad can be done in minutes.

JIF-TY FABRICS

Our presscovers and pads tailored to fit your presses produce work which insures repeat business.



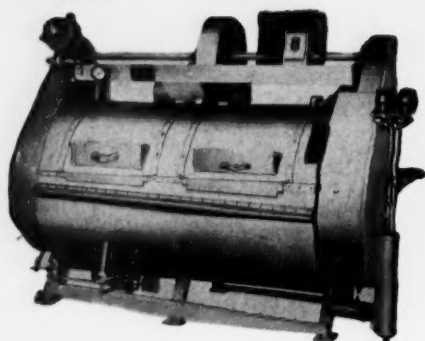
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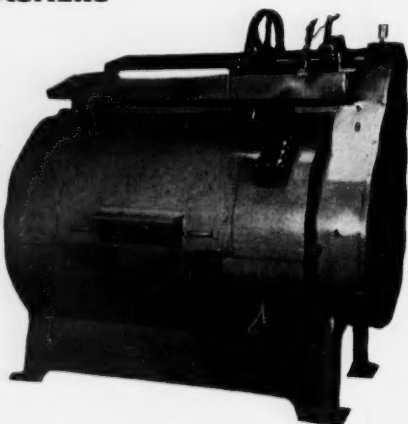
WASHERS BUILT TO YOUR NEEDS!

LAUNDRY WASHERS



- ★ Available in Stainless Steel or Wood in Any Size required.
- ★ Belt driven or motor driven.
- ★ Ball Bearings throughout on all rotary parts.
- ★ Special Heavy Duty Adjustable Packing Glands.
- ★ Solution can't leak out through bearings.
- ★ Safety Door Switch.
- ★ Heavy Duty type motors for reversing washer service.
- ★ Welded Cylinder and Shell.

DRY CLEANING WASHERS



- ★ Available in any size required.
- ★ Heavy Duty All Metal Washers with Maple Unloading Shelves.
- ★ Motor driven or belt driven.
- ★ Special heavy duty adjustable packing glands.
- ★ Solution cannot leak out through bearings.
- ★ Heavy duty locks and keepers, adjustable to keep doors rigidly in place to prevent tearing of clothes.

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USE STRONG* STRAINERS -for *better* protection!



For steam, air, water and gas. STRONG'S new "Y" type strainer is ideal for the protection of steam traps, reducing valves, temperature controls, air control equipment, pumps, etc.

A HIGH-QUALITY, LOW-COST STRAINER!

- ★ **Monel Screen**—Mesh cloth in sizes $\frac{1}{4}$ " to $\frac{3}{8}$ ", larger sizes standard with .027 perforations. Self-centering guides prevent crushing.
- ★ **Semi-steel Body**—For rugged service. Sizes $\frac{1}{4}$ " to 3". For steam pressures to 250 psi, cold pressures to 400 psi.
- ★ **Easy Installation**—New V-shaped gripping lugs on inlet and outlet bosses—may be easily installed with any type wrench.



CAST STEEL "Y" STRAINER

Available for pressures to 600 psi, screwed and flanged, Sizes $\frac{1}{4}$ " to 4".

Send for Catalog 68-S today!

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STRONG, CARLISLE & HAMMOND COMPANY



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ANUM METL
Reg. Trade Mark

OTHER STRONG STEAM SPECIALTIES



No. 070 Small Trap

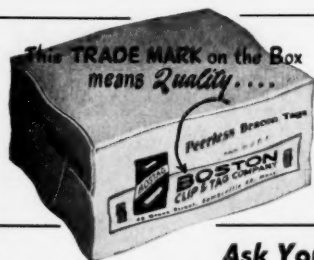


80 Series Trap



"T" Type Strainer

STRONG



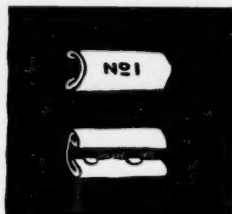
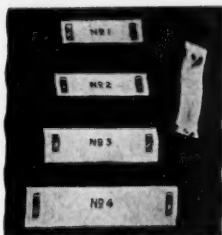
**Proven by Use
Over 40 Years**

Ask Your Distributor for BOSTAG Marking Needs

Genuine PEERLESS BEACON TAGS

Zinc prongs are smooth-edged, tapered to enter and leave fabric without damage. Prongs are anchored, always firm and straight, yet fully pliable for quick attaching and removing. Triple-fold 80x80 count cotton cloth, non-fraying—special easy writing finish for pen or machine markings. Also fibre, 5 sizes. White and Standard Colors.

Also HALF TAGS cut straight or diagonally. SINGLE STAPLE TAGS.



A B SOCK TAGS

Made so water or cleaning fluid can wash in and out of tags. All metal edges durably covered with strong cotton cloth with easy writing surface. 80-x80 count cotton cloth.

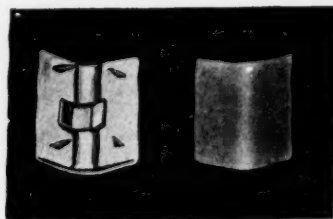
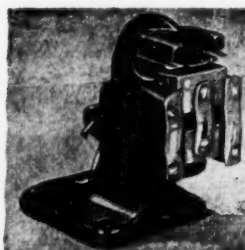
AB No. 1—Size $\frac{3}{4}$ " x $\frac{3}{4}$ "

AB No. 2—Size 1" x $\frac{3}{4}$ "

BOSTAG TAGGING MACHINES

Save time, labor and money by attaching tags to garments faster than by hand. Machines operate simply, easily. Two machines for attaching AB Nos. 1-2 Tags; Four machines for attaching Peerless Beacon Nos. 1-2-3-4 Tags. (No. 4 Machine used for Half 5's.)

(AB Machine Not Pictured.)



NON X L TAGS

For heavy work use this open type tag with large prongs. Pliable for quick attaching and removing. Easy marking surface. In all standard colors — one size only. 80x80 count cotton cloth.

• **Karola CUFF FASTENERS** temporarily fasten French cuffs. Smooth stiff paper supported by steel wire; cannot injure buttonhole.

- **ACE of SPADES INK**
Indelible, intense jet black, high quality.
- **ACE of HEARTS INK**
Indelible, brilliant red, high quality.
- **REDUX** Indelible Ink Remover.

- **TAG-A-DAY TAGS** with or without prongs; plain or printed with days.
- **HUB PERFORATING TAGS**
Indestructible — not affected by soaps, acids, boiling dye, etc.
- **EZ-OFF** Press & Iron Cleaner.

Write for Descriptive Detailed Circular



All
Fully
Guaranteed

AUTO-LITE

TEMPERATURE INDICATORS

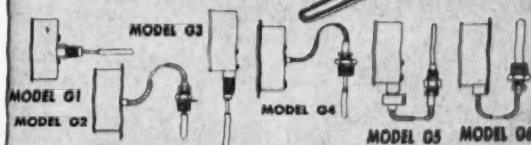
For your specific needs!

- ★ Low-cost protection . . . due to large, specialized production.
- ★ Precision-built indicators provide accurate temperature readings.
- ★ Wide selection of dial ranges to meet specific requirements.
- ★ 6 stock types available as shown.



MODEL "G"

Select the type that is best for your purpose. $3\frac{1}{2}$ " dial; evenly calibrated scales. Priced from \$16.



MODEL "F-1"

This Auto-Lite dial indicating thermometer has solid liquid filled movement and evenly calibrated 4" dial. Available with flexible capillary tubing for remote reading. Priced from \$22. Adjustable, electrical alarm contacts at small additional cost.

Drawing at left shows 3 positions at which Auto-Lite F-1 Thermometer may be mounted by simple screw adjustment.

THE ELECTRIC AUTO-LITE COMPANY
INSTRUMENT AND GAUGE DIVISION
TOLEDO 1, OHIO
NEW YORK • CHICAGO • SARNIA, ONTARIO

THE ELECTRIC AUTO-LITE CO.,
Instrument and Gauge Division,
Toledo 1, Ohio

Please send your illustrated catalog, describing the various styles and types of Auto-Lite Indicating and Recording Thermometers.

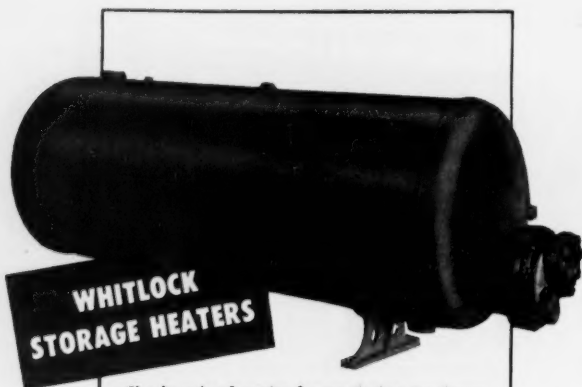
NAME

COMPANY

ADDRESS

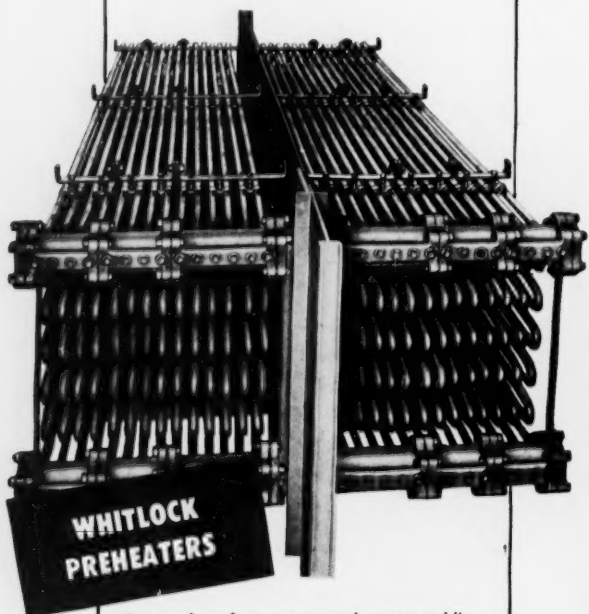
(Indicate purpose for which thermometers are required.)

34



WHITLOCK STORAGE HEATERS

The laundry favorite for producing maximum hot water at minimum cost. Adapted for heating by exhaust steam, condensate, live steam, or any combination of these. Available with steel, Everdur, copper-lined, or Konkrete-lined shells. Write for Bulletin 40A.



WHITLOCK PREHEATERS

Recover heat from waste wash water—adding at no cost 40° to 60° F. to the temperature of incoming cold fresh water. Easy to clean, Whitlock Preheaters pay for themselves in short order. Write for Bulletin 51.

Your local Whitlock Engineer will be glad to analyze your water heating requirements and recommend the proper equipment for your own particular needs. Consult your local telephone directory. Also write for Bulletin 52B covering Whitlock Laundry Equipment. The Whitlock Manufacturing Co., Hartford, Conn.

WHITLOCK

90 South Street, Hartford 10, Conn.

New York • Boston • Chicago • Philadelphia • Detroit • Richmond

Authorized representatives in other principal cities
In Canada: Darling Brothers, Ltd., Montreal

Announcing the NEW ACE 2 LOAD DRYER

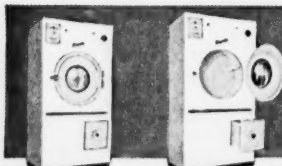


Dryrite



Does the job of
4 domestic dryers
for less than
the cost of two!

Built to handle
MORE customer loads
in LESS time...for
BIGGER PROFITS



Model D-21
Dries 21 lbs.—12 to
15 min.*

Model D-28
Dries 28 lbs.—12 to
15 min.*

* Dry weight of garments.

Insist on the
ORIGINAL ACE DRYER...
Thousands of units
in the field attest to
ACE superiority.

Serving self-service
laundries with Dryers
for over 5 years.

Distributors Inquiries Invited. ACE CABINET CORP.

1457 BROADWAY

NEW YORK 36, N. Y.

NOW, a Device that
Helps to PREVENT

Idle Time... Overtime
Speeding... Accidents

The Servis Recorder shows every move your motor truck makes—when working and when standing, and how long—as shown on its chart (at left). Thus your motor truck writes its own story daily. You SEE all delays at a glance—and correct 'em! Save up to \$500 a year per truck. Over 100,000 trucks now equipped. Money-saving booklet free. The Service Recorder Co., 1375 Euclid Avenue, Cleveland 15, Ohio.



The Servis Recorder

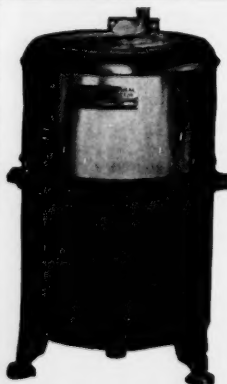
Keeps Motor Trucks Busy

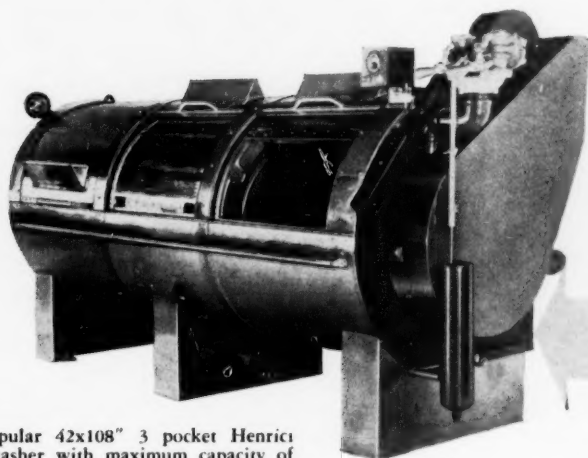
BOCK EXTRACTOR

Insist On A Bock
and
You Will Have The Best
We have made Extractors
Exclusively For 35 Years

Sizes 15" 17" 20"

BOCK LAUNDRY MACHINE CO.
TOLEDO 2, OHIO





Illustrating the popular 42x108" 3 pocket Henrici "Cyclone" model washer with maximum capacity of 510 pounds dry weight. 12 other sizes of HENRICI Washers are available to handle any capacity from 85 lbs. to 510 lbs. dry weight.

There are many outstanding construction features exclusive to HENRICI Washers alone that make them the leader in the field.

One feature, the "Hypercent Mixing Chamber" in the HENRICI "Cyclone" model (not available in the HENRICI "Comet" model), creates an entirely new washing technique. A specially-designed chamber in the rear of the "Cyclone" shell (shown above) makes more effective use of water and supplies . . . produces better washing at less cost!

But there are many other features that make either a HENRICI "Comet" or "Cyclone" your best buy by far, and rugged construction plus quality workmanship are behind each one.

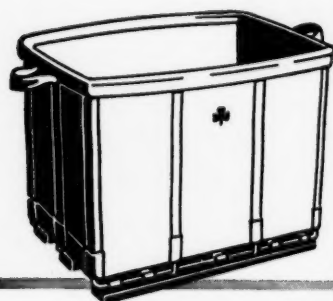
THE REVOLUTIONARY AND PROVEN HYPERCENT MIXING CHAMBER

IS JUST ONE OF MANY
HENRICI FEATURES
THAT WILL GIVE YOU
WHITER WASHING
AND
MORE PRODUCTION

HENRICI LAUNDRY MACHINERY COMPANY

12 HENRICI STREET,
BOSTON 26, MASSACHUSETTS

*Affiliated with:
Chandler Machine Co., Ayer, Mass.*



BUILT FOR YEARS
OF RUGGED SERVICE

SHAMROCK

CANVAS BASKETS, HAMPERS, TRUCKS

Many styles and sizes. Also special
sizes and shapes to meet your need.

SALES OFFICES:

NEW YORK—F. R. Tyroler, 37 W. 43rd St.,
MU 2-1437. ATLANTA—W. E. Petway, 4403
Jefferson St., Chamblee, Ga., Phone 7-2430.
FORT WORTH—V. M. Heaton, 717 Ayers St.,
Lockwood 6564. SAN FRANCISCO—c/o Glenn
B. White & Assoc., Merch. Mart, HE 1-5204.
LOS ANGELES—c/o Glenn B. White Assoc.,
1151 So. Broadway, PR. 4169.

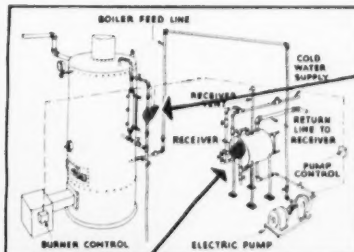
MEESE, INC.

Main Office & Plant
MADISON, INDIANA
Phone 261 or 262

Automatic Boiler Water Level Control

FOR BOILERS TO 150 LBS. PRESSURE

Here's the up-to-the-minute McDonnell way to control the boiler water level automatically. The No. 150 starts and stops the boiler feed pump as boiler water rises and falls. A second switch can be used to stop the burner or sound alarm in case of low water emergency. The No. 27 makes sure there is always enough water in the receiver for boiler needs. Since this set-up keeps water level within the close limits required for maximum efficiency it can actually save you money in the bargain.



McDonnell
No. 150
Pump control, Low
Water Cut-off and/or
Alarm.



McDonnell No. 27
Receiver
Tank Make-up
Water Feeder.

Write for full engineering story

MCDONNELL & MILLER, Inc.
3500 N. Spaulding Ave., Chicago 18, Ill.

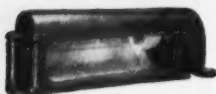
Doing One Thing Well

MCDONNELL
Boiler Water Level CONTROLS

TUMBOLITES *Cut* COSTLY CLAIMS

**LIGHT THOSE DARK
CORNERS IN YOUR
TUMBLERS TO: . . .**

- Eliminate cost of claims
- Promote customers' satisfaction
- Eliminate time lost in adjusting claims
- Increase operator efficiency



\$8.75 complete
COMPLETE SATISFACTION
GUARANTEED — Full purchase price refunded at any time within thirty days if not fully satisfied.

EFFICIENT AND ECONOMICAL

- Compact unit in rugged housing with rounded contours
- One electrical connection, 110V AC-DC
- Three self-tapping screws complete installation in only a few minutes
- Built-in switch turns light off when door is closed
- Better light at lower cost than obtained with conventional fixtures

**Prove to Yourself That It Pays to Use TUMBOLITES by
Ordering from Your Jobber Today!**

THE DONNELL COMPANY • P.O. Box 84C, ST. JOSEPH, MICH.

"pH at your fingertips..."

... nothing like it!

This revolutionary ANALYTICAL pH PROBE UNIT makes possible on-the-spot pH readings anywhere. No more trips to the laboratory, no supports, beakers holders or separate electrodes.

This PROBE UNIT has made possible a true pocket sized pH METER that simplifies pH determination and eliminates errors due to sampling techniques, turbidity, and presence of oxidizing or reducing agents.

No indicating solutions, measurement of sample or color matching are necessary.

PRICE \$125.00

Instrument size: 3-5/8" x 2-1/2" inches
Case size: 3-3/4" x 6-1/2" x 6-1/8" inches
Weight with accessories: 2 lbs.



ANALYTICAL MEASUREMENTS, INC.
585 Main St., Chatham, N. J.

Please Send Full Information To:

Name
Company
Street
City State

Completely self-contained in water-proof ever-ready case with shoulder strap.

**Analytical
Measurements, Inc.**
585 Main St., Chatham, N. J.

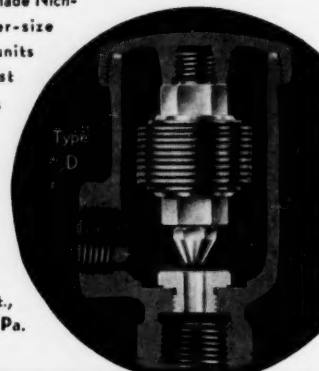
New Nicholson Steam Traps for Laundries

Send for
Bulletin 351

This new Nicholson trap was designed for laundries, dry cleaners and other users of small equipment. Type D effects the same faster heat-up, and the higher and more even temperatures

which have made Nicholson's larger-size thermostatic units among the most widely adopted traps in industry. For ironers, presses, dryers, water heaters, space heaters. 1/4" to 1/2"; press. to 200 lbs.

185 Oregon St.,
Wilkes-Barre, Pa.



W. H. NICHOLSON & CO.

TRAPS • VALVES • FLOATS

**ORDER
TODAY
FROM YOUR
SUPPLY
HOUSE**

BETTER WORK • BETTER PROFITS
with **BETTER PRODUCTS**
STOP COSTLY LEAKS
with **SPEEDY PIPE SEALS!**

Sold as a handy kit, sizes 1/2" to 2", plus Clamp.

First aid for leaks in steam, gas, air or water lines. A size for every pipe. Mends instantly! Easy to use! No plumber's bill—No costly shutdowns. Users stock Speedy Seals for emergencies... for leak stoppage in seconds.

ORDER A LOW COST SET TODAY!

QUICK IDENTIFICATION With the New, Brilliant-Colored

PERMA-NET MARKERS
EIGHT EASY-TO-READ COLORS

Designed for easy handling. Spare Markers spin on pin, will not wear out or tear out! Colors Black, Blue, Brown, Green, Orange, Red, White and Yellow for every classification. Get quick low-cost identification! Order a supply today!

ORDER FROM YOUR LOCAL SUPPLY HOUSE

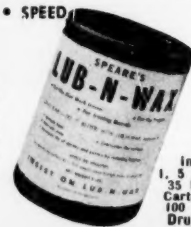
WITH **BETTER FINISH • ECONOMY • SPEED!**
New LUB-N-WAX

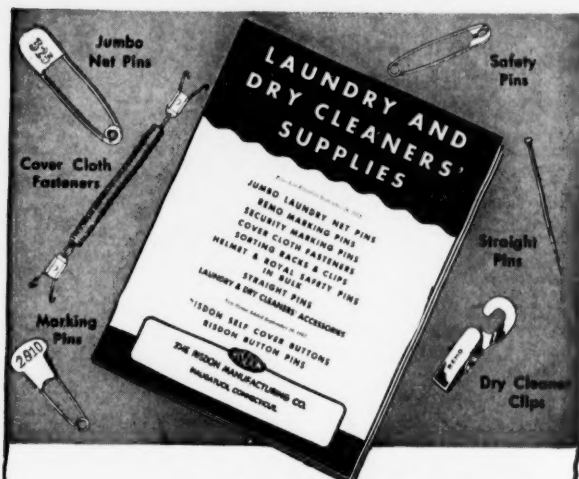
- New Lub-N-Wax resists caking! Lubricates at high ironer speeds. Ideal for "spot" waxing without stopping ironer.
- Adds life to aprons and covers. Does not carbonize or build up scale. The economical, perfect, easy-to-use wax!

THE SPEARE CO.

2235 SOUTH FORD AVENUE

CHICAGO, ILLINOIS





Ask your
dealer for
your copy of
this NEW
**RISDON
REMO
CATALOG**

Have the complete Risdon-Remo line at your fingertips. Pictures, specifications and prices make the line easy to order.

And don't forget the three star features of Risdon-Remo service.

- ★ Immediate Shipments
- ★ Complete Dealer Coverage
- ★ A Pin for Every Need

THE RISDON MANUFACTURING CO.

RISDON

NAUGATUCK, CONN.

RI-2

PROFITS

come
from
saving



OCCO

precision-engineered
extractor baskets
save
you
money

OCCO EXTRACTOR BASKETS made from stainless steel or monel metal represent the finest in sound modern design and operating economy.

OCCO SELF-BALANCING and STANDARD TYPE BASKETS have years of proven performance.

OHIO CENTRIFUGALS COMPANY

Manufacturers of Laundry and Dry Cleaning Equipment
Since 1871

HAMILTON, OHIO

YOU SAVE WITH QUALITY AND COST



WHEN YOU SPECIFY

DANDUX

FROM YOUR DEALER

canvas baskets, trucks, hampers,
extractor covers and bags.

C. R. DANIELS, INC.

Daniels, Md.

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549 W. Randolph St., Chicago 6, Ill.



Produced for work-line Furniture Corp. - Fawn and flower color-decoration in third dimensional technique.

1st
1953

For the second straight year the decal industry has been invited to compete in the Lithographers National Association Awards... and for the second straight year we proudly acknowledge the winning of **FIRST PLACE** in this competition by The Meyercord Co.

It is important to you to know that The Meyercord Co. has been honored by expert judges recruited from top levels of the graphic art. When you bring your decal transfer problem to Meyercord you are sure you will receive the counsel of carefully trained and experienced people... backed by the finest and most complete laboratory and production facilities available. Count on Meyercord for the right decal for every commercial surface and finish.

Your inquiry is invited...



Produced for Eli Lilly and Co. - off-paint reproduction of Florence Nightingale illustrated in observance of hospital week.

1st
1952

THE MEYERCORD CO.
World's Largest Decalomania Manufacturers

DEPT. J-517
5323 WEST LAKE ST.
CHICAGO 44, ILLINOIS

**"Taubman"®
LAUNDRY
MARKING
PEN..**

MODEL #329
6½" LONG

39¢

USED BY
LEADING LAUNDRIES
AND
DRY CLEANERS

- ✓ DISPOSABLE... NO REFILLS
- ✓ GREATER INK SUPPLY
- ✓ INK WON'T WASH OUT
- ✓ INK WON'T DRY OUT
- ✓ DARKER, CLEARER MARKINGS
- ✓ WRITES SMOOTHLY ON FABRIC OR PAPER
- ✓ ELIMINATES STRAYS OR FUGITIVES

Writes to the last drop
IN BLACK
INDELIBLE INK

Contact your nearest jobber or write direct giving jobber's name.

SAMUEL TAUBMAN & CO.
1 WEST 34th ST., Dept. SL, NEW YORK 1, N. Y.

Visit our A.I.L. Booth #328—Los Angeles

Says the
Stadham
'cover'
girl

**Stadham
PRESS PADS
and COVERS**

"For quality pressing—better fabric finishing always use Stadham products. They're longer wearing... produce more quality work economically... cost less. A style for every type and make of press.

Write for name of your distributor.

STADHAM
COMPANY, INC. • HEXAGON DIVISION
1825 31 NORTH 20th STREET PHILA. 21, PA

**NO LINER NEEDED
with GROSS STAR
ALUMINUM GRID-PLATES**



up to 46" \$14.85
mushroom... 11.00
over 46".... 19.25
from your jobber

Perfect heat and steam control are attained through the exclusive metal, vent-spacing and pressing surface of Gross Star Plates. No grid plate liner is needed with any press.

GROSS STAR GRID PLATE for Better Pressing
WFO BY
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**PAYS FOR ITSELF
with the powder it saves**

Ample storage space—50 lbs.
Preheated—15 lbs. steam
Dispenses from ½ to 2 lbs.

Immediate delivery thru jobbers

POWDER DISPENSER
Box 92 • Palestine, Texas

Camelforms

CUT COSTS ON LAUNDRY PACKAGING

For more than fifteen years leading laundries have found CAMELFORMS the • Most economical • Most practical • Quickest set-up method for laundry packaging. Your cost will be about one-half of what it is with any other method of packaging. Write for samples and prices.

Campbell
BOX AND TAG COMPANY
Main and Guide Streets, South Bend 23, Ind.

**LOT SYSTEM TAG-O-LECTRIC
for LAUNDRIES**



Use temporary identification from mark-in to wrapping. Now! Precision power stapling, single or double. Use permanent-marked assorting bins. No looking for old marks, no hanging tickets.

TEXTILE MARKING MACHINE CO., Inc.
246 Walton St., Syracuse 2, N.Y.

FLANNEL for QUALITY FINISHING NASHUA for PREMIUM FLANNEL—

NASHUA Double Faced Flannel has a special felted nap designed for laundry presses. It lasts longer because it traps less starch.

INSIST on NASHUA Flannel—it costs no more than ordinary flannels.

Write today on your letterhead to our New York Sales Office address for free sample.

Distributed Exclusively Through Leading Jobbers.

When writing to advertisers please mention STARCHROOM LAUNDRY JOURNAL

Nashua
TEXTILE COMPANY, INC.

Mill—Nashua, New Hampshire

Sales Office—Room 1325 A
Empire State Building
350 Fifth Avenue, New York 1, New York

FOR LONGER LIFE ON PRESS AND MANGLE INSIST UPON

Thomaston**PEERLESS**

BRAND

**COTTON COVER DUCK
COTTON COVER CLOTH**

IN WANTED SIZES AND WEIGHTS

**AVAILABLE THROUGH
YOUR SUPPLY JOBBER**

INSIST UPON THE

**"PEERLESS"
BRAND**

Top quality, durable products developed expressly to give superior service for long periods. Perfected to produce a fine, smooth finish on all types of work.

Also manufacturers of INDUSTRIAL TEXTILES such as:
TIRE FABRICS • HOSE AND BELT DUCKS • YARNS
CHAFERS • THREADS • SHEETINGS • LAMINATING
FABRICS • DIVERSIFIED COTTON FABRICS**THOMASTON MILLS • THOMASTON, GEORGIA**
NEW YORK OFFICE: 40 NORTH STREET**"Bunn Machines help us
lick labor turnover"**

SAYS CHICAGO LAUNDRY

"Their ease of operation makes Bunn Package Tying Machines our answer to labor turnover in wrapping personnel. Anyone can learn quickly when all the operator does is put the bundle in position and step on a foot trip. There are now 8 Bunn machines in our plant."

Richard Van Beek, Vice-President
Monarch Laundry Company, Chicago, Illinois

SEND NOW FOR BULLETIN 100. Tells how Bunn machines adjust automatically to various laundry bundles. Write address below. No obligation.

B. H. BUNN CO.7605 Vincennes Ave.
Dept. 51-9
Chicago 20, Illinois**Cut YOUR OPERATING COSTS!
MAINTAIN TOP CAPACITY HOT WATER!****Save Fuel Dollars for****HOT WATER . . .
with DEWEY-SHEPARD'S
VERTICAL
FIRE TUBE HEATERS****A REMARKABLY FAST
—EFFICIENT HOT
WATER GENERATOR**

Self-service laundry operators know PROFITS DEPEND ON HOLDING FUEL COSTS DOWN! Laboratory tests prove that one-quarter-inch of lime and scale wastes up to 50% of every fuel dollar. Dewey-Shepard's NO LIME-NO SCALE guarantee assures you the greatest possible fuel saving!

Built on the patented "Tube within a Tube" gravity principle, Dewey-Shepard Hot Water Heaters give you greater combustion volume, greater heating surface! AND they give you maximum efficiency at minimum cost. Hot water, circulating upward, pre-heats cold water circulating downward . . . tempering it, and eliminating expansion, contraction and condensation. Get all the money-saving facts . . . contact your local Dewey-Shepard dealer, or send for complete data.

**100 to 1300 G.P.H.
GAS and OIL FIRED****DEWEY-SHEPARD**

BOILER COMPANY,

1313 N. CAPITOL AVE., INDIANAPOLIS 2, IND.

*more service for your customers
more profit for you***DUBLIFE***collars and cuffs***NOW—COMPOSITE COLLAR BAND,**
of exclusive Dublife design, assures perfect fit for all standard brands of shirts.**THIS SEAL on the band of every Dublife Collar is our customer guarantee.**

WIDE CHOICE OF POPULAR COLLAR STYLES. Ask your favorite supplier or write to:

DUBLIFE COLLAR CO.

268 Fourth Ave., New York 10, N. Y.

When writing to advertisers please mention STARCHROOM LAUNDRY JOURNAL

DIRECTORY SECTIONS

of the Guidebook for the Laundry Industry

CLASSIFIED DIRECTORY . . . Page 191

For ready reference to any or all manufacturers of laundry products turn to the alphabetical listing of supplies and equipment. In most instances products are listed under the noun—that is, "Starch, Corn" rather than "Corn Starch." This arrangement is followed consistently except where common usage has joined the two words; for instance, "Puff Irons" rather than "Irons, Puff." Although listings are planned to yield the desired heading immediately, the directory is thoroughly cross-indexed. Display advertisers are listed in bold face type. For further information and page number of their ads see Advertisers in This Issue opposite the back cover.

TRADE NAMES Page 253

This alphabetical list will be of continuing value to the laundryowner who wishes to identify the manufacturers of the industry's trade name products.

MANUFACTURERS Page 276

Listed alphabetically here are laundry equipment and supply manufacturers together with their locations. Having found a firm name in either of the directories described above, use this list to determine where to address your correspondence.

LOCAL BUYERS' GUIDE . . . Page 285

This geographical breakdown provides complete buying information. Here you will find the jobbers or the branch offices serving your community. On the basis of the information we have received, firm names followed by (E) are jobbers for equipment, firm names followed by (S) are jobbers for supplies, and firm names followed by (E & S) are jobbers for both equipment and supplies. Bold face type denotes display advertisers. Index to Advertisers opposite inside back cover will provide the page number where you can obtain a complete description of their products.

Every effort is made to insure the completeness and accuracy of the following directory sections. However, this information is published as a service, and no guarantee against errors or omissions is expressed or inferred. Additions or corrections are invited at any time. Please address the publisher.

Classified Directory

manufacturers of equipment and supplies used in the laundry industry . . .

ABSORBERS, ODOR

Carbide & Carbon Chemicals Corp., Unit of
Union Carbide & Carbon Corp.
Davies-Young Soap Co.
Keystone Chemical Co.
Schutte & Koerting Co.

ABSORBERS, VIBRATION

Aetna Felt Co., Inc.
American Brass Co., American Metal Hose
Branch
Eclipse-Pioneer Div., Bendix Aviation Corp.
Flexonics Corp.
Johns-Manville
Johnson Metal Hose, Inc.
M B Mfg. Co., Inc.
Raybestos-Manhattan, Inc.
Salomon, L. A. & Bro.
U. S. Rubber Co.

ACCOUNTING MACHINES AND SYSTEMS

Burroughs Adding Machine Co.
National Cash Register Co.
Recordak Corp.

ACETATE, ALUMINUM

See: Aluminum Acetate

ACETIC ACID

DuPont de Nemours, E. I. & Co., Inc.
General Chemical Div., Allied Chemical & Dye
Corp.
Hachik Bleach Co.
Mallinckrodt Chemical Works

ACETONE

Carbide & Carbon Chemicals Corp., Unit of
Union Carbide & Carbon Corp.
DuPont de Nemours, E. I. & Co., Inc.
Mallinckrodt Chemical Works

ACID-RESISTING BUCKETS

See: Buckets and Pails, Acid-Resisting

ACID-RESISTING HARD RUBBER FITTINGS

See: Fittings, Acid-Resisting, Hard Rubber

ACID-RESISTING PAINT

See: Paint

ACID-RESISTING PIPE

See: Pipe, Acid-Resisting, Alloy

ACID-RESISTING TANKS

See: Tanks, Acid-Resisting

ACIDS

See: Acetic Acid, Oxalic Acid

ACTIVATED CARBON

Carbide & Carbon Chemicals Corp., Unit of
Union Carbide & Carbon Corp.
Darco Dept. (Atlas Powder Co.)



REG. U. S. PAT. OFF.

BLUE LABEL DARCO DC
Activated Carbon

continuously adsorbs

Grease—color impurities—fatty acids
—odors—and other impurities from
your dry cleaning solvent.

DARCO DEPARTMENT

ATLAS POWDER COMPANY

Darco General Sales Offices

60 E. 42nd St., New York 17, N. Y.

DuPont de Nemours, E. I. & Co., Inc.
Elgin Softener Corp.
Infileo, Inc.
Fermatit Co.
Refinite Corp.
Salomon, L. A. & Bro.
Stover Water Softener Co.

ADDING MACHINES

Allen, R. C., Business Machines, Inc.
Burroughs Adding Machine Co.
National Cash Register Co.

ADDRESSING EQUIPMENT

Addressograph-Multigraph Corp.

ADSORBERS

See: Activated Carbon, Filter Powder

ADVERTISING POSTERS

See: Posters

ADVERTISING AND SALES PROMOTION MATERIAL

Allied Printing & Stationery Co., Inc.
Bart, Stuart, Advertising
Belnap & Thompson, Inc.
Capital Poster Service
Cappel, MacDonald & Co.
Credson Co.
Dipcraft Mfg. Co.



**WILL CARRY HOME
YOUR MESSAGE**

For Samples and Prices

Write—or Call Fairfax 1-6739

Also Latex Baby Pants, Bathing Caps,
Beach Bags

DIPCRAFT MFG. CO.

1238 Voskamp Street Pittsburgh 12, Pa.

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Larick Mfg. Co.
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Nashua Gummed & Coated Paper Co.
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Universal Match Corp.

AFTERCOOLERS

Davis Engineering Corp.
Ingersoll-Rand Co.
Johnson Corp.
Murray, D. J., Mfg. Co.
Fatterson-Kelley Co., Inc.
Schutte & Koerting Co.
Whitlock Mfg. Co.
Worthington Pump & Machinery Corp.
Young Radiator Co.

AIR CLEANERS

Drico Industrial Corp.
Mine Safety Appliances Co.
Wright-Austin Co.

AIR COMPRESSORS

See: Compressors, Air

AIR CONDITIONERS

Brunner Mfg. Co.
Carrier Corp.
Chrysler Corp., Airtemp Div.
Clarage Fan Co.
Cuno Engineering Corp.
Fairbanks Morse & Co.
Frigidaire Div., General Motors Corp.
General Electric Co.
Haertel, Walter, Co.
Kelvinator Div., Nash-Kelvinator Corp.
Minneapolis-Honeywell Regulator Co., Industrial
Div.
Murray, D. J., Mfg. Co.
Petroleum Heat & Power Co.
Reliable Fur Storage Equipment Co., Div.
Reliable Machine Works, Inc.
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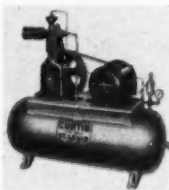
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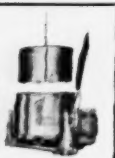
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Minneapolis-Honeywell Regulator Co., Industrial Div.
Proportioners, Inc.
Republic Flow Meters Co.
Schutte & Koerting Co.**METERS, FLUID**American District Steam Co., Inc.
Bailey Meter Co.
Boswer, Inc.
Buffalo Meter Co.
Foxboro Co.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Proportioners, Inc.
Republic Flow Meters Co.
Schutte & Koerting Co.**METERS, GAS**Bailey Meter Co.
Foxboro Co.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Republic Flow Meters Co.
Roots-Connorsville Blower Corp.
Worthington Pump & Machinery Corp.**METERS, pH CHLORIMETRIC DETERMINATION**See: *pH Control Equipment***METERS, pH ELECTROMETRIC DETERMINATION**See: *pH Control Equipment***METERS, STEAM**American District Steam Co., Inc.
Bailey Meter Co.
Bristol Co.
Foxboro Co.
Hagan Corp.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Republic Flow Meters Co.**METERS, TIME**Biddwell Manufacturers
Cramer, R. W., & Co., Inc.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Norman Control Co.
Van Chemical Co.**METERS, WASHER**Biddwell Manufacturers
Minneapolis-Honeywell Regulator Co., Industrial Div.
Norman Control Co.
Rosenthal Mfg. Co.
Van Chemical Co.**METERS, WATER**Bailey Meter Co.
Buffalo Meter Co.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Refinite Corp.
Republic Flow Meters Co.
Worthington Pump & Machinery Corp.**MILDEW PREVENTATIVES**Carbide & Carbon Chemicals Corp., Unit of
Union Carbide & Carbon Corp.
Carlton Chemical Co., Inc.
Carman & Co., Inc.
Chek Products, Inc.
Cidex Corp.
Dow Chemical Co.
DuPont de Nemours, E. I., & Co., Inc.
General Dyestuff Corp.
Germaclean, Inc.
Haertel, Walter, Co.
Kohnstamm, H., & Co., Inc.
Mallinckrodt Chemical Works
Nuodex Products Co., Inc.
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Perm-Aseptic Corp.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
Research Laboratories Corp.
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Texas Soap Mfg. Corp.
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Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
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See: Pads and Padding, Press and Ironer

PADDING, COTTON

See: Pads and Padding, Press and Ironer

PADDING, FELT

See: Pads and Padding, Press and Ironer

PADDING, IRONER

See: Pads and Padding, Press and Ironer

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PADS, IRONER, HANDKERCHIEF

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PADS, MONEL METAL

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PADS, PRESS AND IRONER, ASBESTOS

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PADS, PRESS, COTTON

See: Pads and Padding, Press and Ironer

PADS, PRESS, FELT

See: Pads and Padding, Press and Ironer

PADS, PRESS, FLANNEL

See: Pads and Padding, Press and Ironer

PADS, PRESS, RUBBER

See: Pads and Padding, Press and Ironer

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See: Pads and Padding, Press and Ironer

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See: Pads and Padding, Press and Ironer

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See: Pads and Padding, Press and Ironer

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See: Solvent, Safety Petroleum

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Foxboro Co.
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Macbeth Corp.
National Technical Laboratories
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pH INDICATORS

See: Indicators, pH

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PHOSPHATE, TRISODIUM

See: Trisodium Phosphate

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See: Controls and Regulators, Photoelectric

pH TEST KITS

See: Test Kits, pH Control

PICK-UP BOXES, METAL

See: Drop Boxes

PILLOW BLOCKS

See: Blocks, Hanger and Pillow

PILLOWCASE REPLACEMENTS

See: Replacements, Sheets, Pillowcases, etc.

PILLOWCASES

See: Replacements, Sheets, Pillowcases, etc.

**PILLOW-FEATHER STERILIZING
MACHINES**

See: Sterilizing Machines, Pillow-Feather

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See: Tickings

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See: Identification Systems

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Hercules Powder Co.
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Riverside Chemical Co., Inc.
Roberts-Modaber Co., Inc.
Standard Soap Co. of Camden
Stearns, George, Chemical & Mfg. Co.
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PINS, MARKING

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National Marking Machine Co.
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Naugatuck, Connecticut

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Page 130



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Davies-Young Soap Co.
DuPont de Nemours, E. I., & Co., Inc.
Franklin Research Co.
Hood Chemical Co., Crescent Div.
Horn, A. C., Co., Inc.
Huntington Laboratories, Inc.
Innis, Speiden & Co.
Johnson Chemical Industries, Inc.
Kelite Products, Inc.
Keystone Chemical Co.
Kohnstamm, H., & Co., Inc.
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WEAVING

See: Reweaving

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See: Brushes

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Drew, E. F., & Co., Inc.
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Essential Chemicals Co.
General Aniline & Film Corp., Special Products
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Warco Laboratories
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Wolke, A. F., Co.
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ACLS, concentrated liquid stripper and reducing agents, Carman & Co., Inc.

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ATC, controls and regulators, time switches, Automatic Temperature Control Co., Inc.

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ACE, rubber hose, Ace Hose & Rubber Co.

ACE, stapler, staples, Ace fastener Corp.

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ALFCOSPRAY, nozzles, American-La France-Foamite Corp.

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ALKON, laundry breaks, George Stearns Chemical & Mfg. Co.

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AMANTHRENE, aniline dyes, American Aniline Products, Inc.

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- AMERICAN**, wearing apparel, linen supply and other special-purpose press units, American Laundry Machinery Co.
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- AMERICAN AUTOMATIC**, drycleaning tumblers, temperature controls, American Laundry Machinery Co.
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- AMERICAN ZONE-AIR**, laundry and drycleaning tumblers, American Laundry Machinery Co.
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- AMESTEAM**, steam generator, Ames Iron Works
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- AMMOCIDE**, laundry sterilizer, mildew preventative, Carlton Chemical Co., Inc.
- AMMUM**, wear-resistant metal for traps, valve parts, Strong, Carlisle & Hammond Co.
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- ARCTIC SYNTEX**, synthetic detergents, Colgate-Palmolive-Peet Co.
- ARIDEX**, renewable water repellent, E. I. du Pont de Nemours & Co., Inc.
- ARISTOCRAT**, safety pins, William Prym, Inc.
- ARK-VAK**, leather belting, Philadelphia Belting Co.
- ARLAC**, alkali, soap builder, Wyandotte Chemicals Corp.
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- ARMITE**, anti-seize compound, thread lubricant, joint seal compound, gasket paste, Armite Laboratories
- ARMOFOS**, sodium tripolyphosphate, anhydrous, A. R. Mass Chemical Div., Victor Chemical Works
- ARMORTUBE**, pneumatic armored tubing, Bailey Meter Co.
- ARMOUR**, soaps and synthetics, Armour & Co., Industrial Soap Div.
- ARMOWAX**, domestic hard wax, Armour & Co.
- ARMSTRONG**, humidifiers, strainers, traps, Armstrong Machine Works
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- ATLAS FIRE RETARDANT**, flameproof agent, H. Kohnstamm & Co., Inc.
- ATLAS GRAVITY FEEDER RACK**, for flatwork ironers, Atlas Steel Products, Inc.
- ATLAS MOISTURE CONTROL**, for control of moisture retention in laundry extractors, Atlas Steel Products, Inc.
- ATLAS RUST SOUR**, sour, H. Kohnstamm & Co., Inc.
- ATOMIC**, drycleaning systems, wet washers, Hammond Laundry-Cleaning Machinery Co.
- ATOMIC**, rug, upholstery and fabric cleaning shampoo, Theobald Industries
- ATOMOL**, drycleaning filter soap with antiseptic and mothproofing, A. F. Wolke Co.
- ATTASOL**, colloidal clay, Attapulugus Clay Co.
- ATTORIS**, fur glaze and cleaning fluid, Bernard Siretta Co.
- AUTOGAPHIC**, registers, business forms, Autographic Register Co.
- AUTO-KLEAN**, filters, Cuno Engineering Corp.
- AUTO-LEVEL**, boiler return system, valves, Spotswood Parker & Co.
- AUTO-LITE**, gauges, indicating and recording thermometers, Electric Auto-Lite Co.
- AUTOMATIC**, lubricators, Victor Lubricator Sales Co.
- AUTOMATIC**, spray guns, OlsonMark Corp.
- AUTOMATIC PALLET LOADER**, automatic stacking of cartons, Lamson Corp., Blower Div.
- AUTO-PER**, synthetic solvent drycleaning unit, Vic Cleaning Machine Co.
- AUTOSET**, a type of free-vane air-operated controller, Bristol Co.
- AVAGLO 20**, drycleaning soap, Allen & Vickers, Inc.
- AVEE**, dry spotter, wet spotter, rug soap, upholstery cleaner, hat cleaning soap, Allen & Vickers, Inc.
- AXIAL-FLOW**, exhaust fan, DeBothezat Fans Div., American Machine & Metals, Inc.
- AXTEX**, first quality, stiff mud firebrick, Mexico Refractories Co.
- AYR-MOR**, drycleaning and laundry tumblers, drycleaning systems, Ayr-Mor Machinery Co.
- AZTEX**, high heat duty firebrick, Mexico Refractories Co.

B

- BB**, white grease, low-pressure grease, Keystone Lubricating Co.
- B & G**, conveyors, all types, B & G Machinery Co.
- B.N.B.**, collar support, clasp, loop, J. W. Steele & Co.
- B. N. D.**, concentrated liquid drycleaning detergent, Benda Products, Inc.
- B. & W.**, boilers, Babcock & Wilcox Co.
- B-X**, bloodstain remover, John P. Lynch Co.
- BABSOLV**, spotter and lubricant, Slater-Robbins Co., Inc.
- BABSTOD**, concentrated drycleaning soap, Slater-Robbins Co., Inc.
- BABTEX**, lipstick and paint remover, Slater-Robbins Co., Inc.
- BAB-ZYME**, digester, Slater-Robbins Co., Inc.
- BADER**, pants stretcher, C. L. Bader Co., Inc.
- BADER SOLVENT PURIFIER**, process for cleaning solvent, C. L. Bader Co.
- BADGER**, break powder, Minnesota Chemical Co.
- BADGER**, liquid soap, Colgate-Palmolive-Peet Co.
- BAFFLE-CRETE**, first quality castable for baffle construction, Mexico Refractories Co.
- BAG N' NET**, holder, Time Savers, Inc.
- BAG-O-MATIC**, combined bagger, invoice desk, bag storage rack, G. H. Bishop Co.
- BAG-O-TEER**, garment bagger, G. H. Bishop Co.
- BAHNSON**, centrifugal humidifier, Bahnsen Co.
- BALANCED DRIVE**, washers, Troy Laundry Machinery Div., American Machine & Metals, Inc.
- BALSAM-WOOL**, blanket insulation, Wood Conversion Co.
- BAND BOX**, drycleaning systems, synthetic solvent, Band Box Corp.
- BANNER**, lubricator, Lunkenheimer Co.
- BANNER BRAND**, button, buckle, pinning, pleating, darning machines, Maxant Button & Supply Co.
- BANTAM**, autographic registers, Autographic Register Co.
- BANTAM**, laundry washer, Troy Laundry Div., American Machine & Metals, Inc.
- BANTAM**, net, Southern Mills, Inc.
- BARCO**, flexible steam, revolving and swing joints, Barco Mfg. Co.
- BARRELED SUNLIGHT**, enamels, paints, varnishes, Barreled Sunlight Paint Co.
- BARRETT SPECIFICATION**, roofing pitch and roofing felt, Barrett Div., Allied Chemical & Dye Corp.
- BAR STEEL**, exterior and interior inhibitive paint for steel and pipe, Midland Paint & Varnish Co.
- BASEX**, zeolite, Hungerford & Terry, Inc.
- BASKE TRUCK**, wire basket truck, G. H. Bishop Co.
- BASSICK**, casters, wheels, Bassick Co.
- BEACHRITE**, built soap, Beach Soap Co.
- BEACON**, bluing, Hood Chemical Co., Inc., Crescent Div.
- BEATS-ALL**, covers, nets, padding, Tingle, Brown & Co.
- BEAU-CLEAN**, drycleaning soap, Murphy Sales Co.
- BEAVER**, pipe and bolt cutting and threading hand tools and machines, Beaver Pipe Tools, Inc.
- BEAVER LUSTER**, fur luster, Nycco Products Co.
- BECKMAN**, Ph meters and other analytical instruments, Beckman Instruments, Inc.
- BEEHIVE**, spring padding, Western Laundry Press Co.
- BELCO**, water softeners, Belco Industrial Equipment Div.
- BELCOLITE**, zeolite, Belco Industrial Equipment Div.
- BEL-JO**, starch, A. E. Staley Mfg. Co.
- BELLMASTER**, mechanical pipe joint for cast-iron pipe, Dresser Mfg. Div., Dresser Industries, Inc.
- BELMONT**, gaskets, packings, Belmont Packing & Rubber Co., Inc.
- BELT-ZIP**, belt hanger, Para-Lux Products Co.
- BENDA**, liquid drycleaning soap, paint and grease remover, Benda Products, Inc.
- BENDA-ZYME**, digester, Benda Products, Inc.
- BENDIX**, seamless flexible metal hose, Eclipse-Pioneer Div., Bendix Aviation Corp.
- BENTEC**, synthetic detergent, Wyandotte Chemicals Corp.
- BENZOCARDINOLE OXO**, detergent, Apex Chemical Co., Inc.
- BERGER**, steel lockers, shelving, cabinets, bins, benches, desks and tables, Republic Steel Corp.

- BERKSOL**, drycleaning soap, Stadham Co., Inc.
BERKSTRIP, stripper, Stadham Co., Inc.
BERKSUDS, synthetic detergent, Stadham Co., Inc.
BERLOU, mothproofing agent, Berlou Mfg. Co.
BERSENE, water softener, Bersworth Chemical Co.
BERSONITE, built soaps, Stadham Co., Inc.
BESLER, steam generators, superheaters, Besler Corp.
BESTEEL, straight pins, Fleischer Mills, Inc.
BEST FORMS, tag identification systems, Best Forms Co.
BESTO, synthetic wetcleaning detergent, Nu-Pro Mfg. Co.
BESTOS, asbestos covers, padding, Tingue, Brown & Co.
BEST YET, cellophane ribbon, cotton twines, New York Twine Corp.
BETE, fog and spray nozzles, Bete Fog Nozzle, Inc.
BIFURCATOR, duct fan, DeBothezat Fans Div., American Machine & Metals, Inc.
BIG CHIEF, laundry nets, Southern Mills, Inc.
BIG CHIEF, truck tires, Mohawk Rubber Co.
BIG CHIEF, wood washers, Illinois Laundry Machinery Mfg. Co.
BIG FLO, filters, Butler Mfg. Co.
BIG FOUR, firebrick, Mexico Refractories Co.
BIG A, stripper, Eaton Chemical & Dyestuff Co.
BIG HORN, bentonite clay, Wyocona Mining Co.
BIG HORN WYOMING, colloidal clay, Wyocona Mining Co.
BIG INCH, pressure-sensitive tape dispensers, Better Packages, Inc.
BIGMOUTH, shake-out tumbler, Purkett Mfg. Co.
BIG SAVAGE, high heat duty firebrick, Mexico Refractories Co.
BIG SAVAGE SUPER, firebrick, Mexico Refractories Co.
BILLINGSLEY, extractors, filters, washers, Billingsley Machinery Co.
BILLMYRE DRYSET, press, Lamson Corp.
BILVIS-X, detergent and soap builder, Warco Laboratories
BINGO, drainpipe opener, Huntington Laboratories, Inc.
BINKS, spray painting equipment, Binks Mfg. Co.
BIONOLS, germicides, General Dyestuff Corp.
BIONALS, germicidal detergents, General Dyestuff Corp.
BISHOP, laundry and drycleaning appliances and light production equipment, G. H. Bishop Co.
BISNO, sewing room supplies, Bisno Supply Co.
BISONITE, plastic coating, Washine National Sands, Inc.
BIXBEE #20, fur and leather cleaning aid, Bixbee Research Div. of Blazemaster, Inc.
BIXLER, conveyors, National Marking Machine Co.
BLACK DIAMOND, roofing pitch and felt, Barrett Div., Allied Chemical & Dye Corp.
BLACK LINE, knitted padding, Minnesota Chemical Co.
BLACK MAGIC, pipe-sealing compound, gasket cement, Bowser, Inc.
BLACKMER, rotary hand and power pumps, Blackmer Pump Co.
BLACK OUT, ink remover, J. L. Hardin Co., Inc.
BLANCH-STIK, stain remover, Keystone Aniline & Chemical Co., Inc.
BLANCO, all-fabric stripper, Keystone Aniline & Chemical Co., Inc.
BLANKETMASTER, blanket washing machine, Hopkins Equipment Co.
BLAZE-PRUF, flameproofing, Crossland Mfg. Co., Inc.
BLENCO, rug cleaning soap, Blenco Co.
BLENDOL, drycleaning soap, R. R. Street & Co., Inc.
BLOOD-I-CATER, spot remover, W. F. Johnson Products Co., Inc.
BLOOD-MUV, stain remover, Package Chemical Co., Inc.
BLOOD-PLUS, spotting aid, Ink-O Products Co.
BLO-R-VAC, water pickup cleaner-vacuum, Ideal Industries, Inc.
BLUD-X, concentrated liquid enzyme, Huntington Laboratories, Inc.
BLUE BELL, blue, H. Kohnstamm & Co., Inc.
BLUE BONNET, blue, H. Kohnstamm & Co., Inc.
BLUE-EDGE, aprons, wetwash bags, Lewis National Corp.
BLUE LABEL, tallow soap, Beach Soap Co.
BLUE LINE, collar supports, hangers, shirt bands, necktie hangers, Loroco Industries, Inc.
BLUE RIBBON, laundry nets, Southern Mills, Inc.
BLUE RIBBON, polishes, waxes, International Metal Polish Co.
BLUE RIDGE, leather belting, waterproof leather belting, Charlotte Leather Belting Co.
BLUE STAR, feed ribbons, New York Belting & Packing Co.
BLUE STREAK, nylon nets, Whitehouse Nylon Products
BLUE STRIPE, cover cloth, padding, William E. Hopper & Sons
BLUFIXE, sour, H. Kohnstamm & Co., Inc.
BLUFIXE EXTRA-SOLUBLE, sour, H. Kohnstamm & Co., Inc.
BLUREX, sour, Hood Chemical Co., Inc., Crescent Div.
BLU-TINT, sour and blue combination, Johnson Chemical Industries, Inc.
BLUTONE, liquid blue, E. F. Drew & Co., Inc.
BOCK, developer, laundry extractors, Bock Laundry Machine Co.
BOCONIZE, mothproofing compound, Bocon Chemical Co.
BOGUE, motors, generators, Belco Industrial Equipment Div.
BOILA KLEEN, boiler compound, Patek & Co.
BOILER LAX, boiler cleaning compound, Radiator Specialty Co.
BOILER SOLDER SEAL, metallic powder for boiler repairs, Radiator Specialty Co.
BONASOL, textile dyeing assistants, American Aniline Products, Inc.
BOND, truck casters, Bond Foundry & Machine Co.
BONDERITE, corrosion-resistant paint, Tropical Paint & Oil Co.
BOND SET, silica base bonding mortar, Mexico Refractories Co.
BONE-DRI, water repellent, Benda Products, Inc.
BONIS, fur drum, fur sewing machine, Bonis Bros. Fur Machinery Corp.
BON-SPUN, nylon press covering, F. H. Bonn Co.
BON-TEX, nylon press covering, F. H. Bonn Co.
BON-TWIL, nylon press covering, F. H. Bonn Co.
BOOSTER, shirt unit, Unipress Co., Inc.
BORASUDS, textile scouring, Essential Chemicals Co.
BORGANA, boiler water treatment, Strong, Castle & Hammond Co.
BORI-BLUE, sour, Keever Starch Co.
BOROCHLOR, liquid bleach, H. Kohnstamm & Co., Inc.
BOSTAGS, marking tags, Boston Clip & Tag Co.
BOSTITCH, cuff tackers, stapling machine, staples, Bostitch, Inc.
BOW, collar support, Package Masters, Inc.
BOWSER, stills, filters, Bowser, Inc.
BRANFORD, oil burners, Malleable Iron Fittings Co.
BREADY, heat reclaimers, heat exchangers, storage and water heaters, Bready Engineering Corp.
BREAK-AID, solvent pine oil, Thompson-Hayward Chemical Co.
BREAK-O, break powder, Swift & Co.
BREAK-PHOS, soap regenerator, Thompson-Hayward Chemical Co.
BREAKSYN, break detergent, E. F. Drew & Co., Inc.
BREECH LOCK, cast-steel gate valves, Lunkenheimer Co.
BRESSLER, controls, Bressler Engineering Service
BREX, break compound, Procter & Gamble Distributing Co.
BRIDGEPORT, copper water tubing, Bridgeport Brass Co.
BRIK-TELO, wetcleaning detergent, Merson Products Co.
BRILLIANTONE, sour, G. S. Robins & Co.
BRILLO, press pads, Brillo Mfg. Co., Inc.
BRINE-O-LATOR, water-softening equipment, Carey Salt Co.
BRISTO, multiple spline socket set screws, hollow head cap screws, Bristol Co.
BRISTOL, starch, H. Kohnstamm & Co., Inc.
BRISTOL'S, instruments, Bristol Co.
BRITE, paste drycleaning soap, Keystone Aniline & Chemical Co., Inc.
BRITTEWHITE, laundry blue, Washine National Sands, Inc.
BRITEX, soaps, powdered soap, Van Chemical Co.
BRI-TONE, drycleaning concentrate, Spix Products Co.
BRIZENE, drycleaning soaps, Patek & Co.
BROWNELL, boilers, heat exchangers, stokers, Brownell Co.
BROX, dri-cut cardboard boxes, Alfred J. Brooks
BROXFORMS, shirt boxes, Alfred J. Brooks
BRU-CEX, water conditioning, feeders and chemicals, Bruner Corp.
BRUNNER, air compressors, air conditioners, refrigeration condenser, Brunner Mfg. Co.
BRUSH-AWAY, hand-brushing drycleaning soap, Raychem Products Co.
BRUSHENE, hand-brushing soap, Keystone Aniline & Chemical Co., Inc.
BRUSH-KLEEN, brushing soap, Adco, Inc.
BRUSH-OUT, liquid drycleaning soap, Caled Products Co., Inc.
BRYAN, boilers, Bryan Steam Corp.
BSC BRAND, covers, pads, flannels, cloth bags, Baltimore Specialties Co.
BUBBLE RUB CONCENTRATE, upholstery shampooing soap, Keystone Chemical Co.
BUCKEYE, drycleaning washer, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
BUCKEYE, soaps, spotters, stain remover, suede leather dressing, water repellent, paint, oil and grease remover, rug and upholstery shampoo, Davies-Young Soap Co.
BUCKEYE KIOR-LENE, spotter, Davies-Young Soap Co.
BUCKEYE LIQUA-BREAK, break and stain remover, Davies-Young Soap Co.
BUCKEYE WET SPOTTER, all-around wet spotter, Davies-Young Soap Co.
BUCKEYE ZYMATIC, digestive spotter, Davies-Young Soap Co.
BUDA, industrial trucks, Buda Co.
BUFF, alkali compound, special detergents, E. F. Drew & Co., Inc.
BUFFALO, extractor, filter, still, Gross Machinery Co., Inc.
BULLDOG, nylon laundry nets, metal press pads, X. S. Smith, Inc.
- BUMINOL**, albuminous stains and blood remover, Spix Products Co.
BUNG, special brick for malleable furnaces, dry press, Mexico Refractories Co.
BUNN, bundle-tying machine, B. H. Bunn Co.
BURBAK, cotton padding, Pittsburgh Waterproof Co.
BURKS, boiler feed, condensation return feeds, turbine, centrifugal pumps and water system, Decatur Pump Co.
BUROMIN, boiler water treatment, Hagan Corp.
BURROUGHS, accounting, adding, bookkeeping, calculating, cash-registering machines, business machine supplies, Burroughs Adding Machine Co.
BUSSARD, spooled pants pocketing, collapsible extractor cover, J. D. Bussard & Son
BUS-TRUCK CHIEF, truck tires, Mohawk Rubber Co.
BUTLER, boiler water treatment, mechanical descaler, Butler Engineering Co.
BUTLER, complete drycleaning plant equipment, Butler Mfg. Co.
BUTLER STILL, solvent distillation unit, Butler Mfg. Co.
BUTONOLE, hub perforating dye tag, Boston Clip & Tag Co.
BUTTON-NO-BUTTON, loop and clasp, J. W. Steele & Co.
BYLAN, cover cloth, Magla Products

- C. B., detergent, Adco, Inc.
C-50, drycleaning detergents, Nu-Pro Mfg. Co.
C-H, electrical equipment, Cutler-Hammer, Inc.
C-L, washers, extractors, Cummings-Landau Laundry Machinery Co., Inc.
CM, fire retardant, E. I. du Pont de Nemours & Co., Inc.
CMC FORMULA, sizing and finishing compound, Hercules Powder Co.
CMH, expansion joints, expansion bellows, flexible metal conduit, Flexonics Corp.
C & S, cleansing powder, Swift & Co.
CABINETROL, control panel equipment, General Electric Co.
CABINET-SAN, deodorant, Huntington Laboratories, Inc.
CADET, paper products, Cade Paper & Bag Corp.
CALDWELL, tank, W. E. Caldwell Co., Inc.
CALECO, drycleaning, laundry, starch extractors, wood laundry washer, wood cylinders, California Laundry Equipment Co.
CALED L-S, a liquid soap for drycleaning use, Caled Products Co., Inc.
CALGON, detergents, metaphosphate, rug cleaning and finishing compound, sizings, sodium metaphosphate, solvent, lime soap, water conditioners, chemical water softeners, Calgon, Inc.
CALICO, medium-titer built soap, Procter & Gamble Distributing Co.
CALLANET, knitted nylon nets, Callaway Mills, Inc.
CALROD, flatiron, General Electric Co.
CAL'S CHARGE, strong soap test kit, Caled Products Co., Inc.
CALSHIFE, pipe-covering blocks, Ruberoid Co.
CAL-SIZE, liquid or powder sizing, Caled Products Co., Inc.
CAL-SOAP, drycleaning soaps, Caled Products Co., Inc.
CAL-STRIP, liquid concentrated agent, Caled Products Co., Inc.
CAL-TEX, saponified oil-solvent blend with soap, Caled Products Co., Inc.
CAMBRIDGE, electrical and mechanical precision instruments, Cambridge Instrument Co., Inc.
CAMELFORMS, laundry shells, Campbell Box & Tag Co.
CAMELTAGS, laundry tags, Campbell Box & Tag Co.
CAMEO, starch, A. E. Staley Mfg. Co.
CAMERON, pumps, Ingersoll-Rand Co.
CAMPBELL MICRONETIC, water and signal alarms, J. A. Campbell Co.
CANTON, stokers, steam generators, power plant equipment, Canton Stoker Corp.
CAPITAL, marking tags, U. S. Marking Tag Co.
CAPITAL, posters, display frames, inserts, Pargament-Fidler, Inc.
CAPITAL, posters, streamers for window display, Capital Poster Service
CAPTOL, paint and grease remover, Allen & Vickers, Inc.
CARBEX, silicon carbide super-refractory brick, McLeod & Henry Co., Inc.
CARBIDE METHANOL, alcohol, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
CARBITOL, solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
CARRO-DUR, activated carbon, Permutit Co.
CARBONOT, insulators, General Electric Co.
CARBON-TET, synthetic cleaning fluid, E. I. du Pont de Nemours & Co., Inc.
CARBO SOUR, laundry chemical, Diamond Alkali Co.

- CARBOXIDE**, fumigant, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- CARCO**, marking-machine ink, type cleaner, ink thinner, Carman & Co., Inc.
- CARCO**, press-head cleaner, Carman & Co., Inc.
- CARCO**, wire hangers, trouser guards, Carman & Co., Inc.
- CARCODERM**, hand lotion for drycleaners, Carman & Co., Inc.
- CARCOFLEX**, plasticizing agent for plastic or resin-treated fabrics, Carman & Co., Inc.
- CARCOLENE**, general spotter, Carman & Co., Inc.
- CARCO SOURS**, neutralizing agents, Carman & Co., Inc.
- CARCOSUDS**, rug shampoo, Carman & Co., Inc.
- CARCOVAN**, light truck body, Pacific Car & Foundry Co.
- CARDOGRAPH**, addressograph machine, Addressograph-Multigraph Corp.
- CAREY**, bathroom cabinets, Philip Carey Mfg. Co.
- CAREYDUCT**, asbestos cement pipe, Philip Carey Mfg. Co.
- CAREY-SOTE**, asbestos cement board, Philip Carey Mfg. Co.
- CAREY'S SALT**, salt tablets, dispensers, Carey Salt Co.
- CARLTONITE**, synthetic detergent laundry washing compound, Carlton Chemical Co., Inc.
- CARMAN**, indelible pen ink, Carman & Co., Inc.
- CARMANETS**, nylon nets, Carman & Co., Inc.
- CAR-NA-CRETE**, rubber floor enamel, Continental Car-Na-Var Corp.
- CAR-NA-LAC**, self-polishing heavy-duty floor wax, Continental Car-Na-Var Corp.
- CAR-NA-VAR**, upholstery and carpet cleaning machine, liquid spirit wax requiring buffing, Continental Car-Na-Var Corp.
- CAROUSEL**, automatic 10-washer counter-flow laundering unit, International Laundry Equipment Co.
- CAROVAN**, delivery trucks, Carovan Div., Universal Sales, Inc.
- CARRIER**, industrial heating, refrigerating systems, Carrier Corp.
- CARVEL**, nylon covering, press covers, Carman & Co., Inc.
- CARVER**, centrifugal pumps, Carver Pump Co.
- CASCADE**, mechanical unloading washer, laundry washers, automatic washing control, American Laundry Machinery Co.
- CASCADE**, nets, H. Kohnstamm & Co., Inc.
- CASH'S**, woven names, labels, markers, tape, J. & J. Cash, Inc.
- CASH STANDARD**, valves, regulators, A. W. Cash Co., Inc.
- CAST-REFRACT**, refractory materials, Quigley Co., Inc.
- CATERPILLER**, diesel engine, Caterpillar Tractor Co.
- CAU-FLAN**, flannel cotton pads, X. S. Smith, Inc.
- CAUSUL**, metal gate valves and cocks, Lunkenheimer Co.
- CEADAR SHIELDS**, storage bags, paper, various grades & colors, Rassenfoss Bag Co., Inc.
- CEGLIN**, finish for textiles, Sylvania Industrial Corp.
- CELANESE**, dyes, American Aniline Products, Inc.
- CELA-SOL**, paint remover, National Cleaners Chemical Mfg. Co.
- CELATINT**, tints for acetate yarn, American Aniline Products, Inc.
- CELITE**, filter aids (diatomaceous silica), Johns-Manville
- CELLOSIZE**, sizing, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- CELIOSOLVE**, solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- CELOFORM**, spotter, Keystone Aniline & Chemical Co., Inc.
- CEMENTKOTE**, heavy duty oil base cement paint, Tropical Paint & Oil Co.
- CEN-TRA VAC**, centrifugal refrigeration compressor, Trane Co.
- CENTRIZE**, efficiency engineers, Centrise
- CENTURY**, motors, generators, Century Electric Co.
- CENTURY**, cold synthetic drycleaning unit, 100 lb. load, Vic Cleaning Machine Co.
- CENTURY BRAND**, sodium perborate, Eaton Chemical & Dyestuff Co.
- CERFAK**, detergents, E. F. Houghton & Co.
- CERTI-CIDE**, demoting liquid, Certified Chemical & Equipment Co.
- CERTIFIED**, low-titer neutral soap flakes, Armour & Co.
- CERTIFIED SOLID**, neutral solid pack crutcher soap, Armour & Co.
- CERTI-FOAM**, upholstery cleaner, Certified Chemical & Equipment Co.
- CERTI-LAVE**, non rinse rug shampoo, Certified Chemical & Equipment Co.
- CETIC-X**, odorless liquid sour, Warco Laboratories
- CHACE**, automatic washer valves, Chace Valve Div., American Laundry Machinery Co.
- CHALLENGER**, all types fire extinguishers, American-La France-Foamite Corp.
- CHALLENGER**, stokers, Link-Belt Co.
- CHAMBERS**, laundry and drycleaning extractors, Chambers Extractor Co.
- CHAMP CLEANER**, fur cleaner, Nycco Products Co.
- CHAMPION**, automatic tying machine, cable cord, Thomaston Mills
- CHAMPION**, Monel press pad, Resillo Co.
- CHAMPION CASCADE**, laundry washer, American Laundry Machinery Co.
- CHANDLER**, pleating, darning, button-sewing machines, fluters, thread, Chandler Machine Co.
- CHARGIT**, chlorophyll, Nu-Pro Mfg. Corp.
- CHASE**, brass and copper products, Chase Brass & Copper Co.
- CHAT**, detergent, General Aniline & Film Corp., Special Products Sales Div.
- CHATILLON**, scales, John Chatillon & Sons
- CHECKERS' BEST**, tag marking system, Waverly Specialty Co.
- CHEK-TAG**, drycleaning identification system, Best Forms Co.
- CHEMKLOS**, work clothing, Mine Safety Appliances Co.
- CHEM-O-FEEDER**, constant rate proportioning pump, Proportioners, Inc.
- CHEVCO**, belt cleaner, Samuel Cheylin Co., Inc.
- CHEVROLET**, motor trucks, Chevrolet Motor Div., General Motors Corp.
- CHEX**, laundry mildewproofing agent, Cidex Corp.
- CHEXIT**, unit system for production control, Carman & Co., Inc.
- CHIC**, sizing for wetcleaning, Patek & Co.
- CHICAGO**, laundry machinery, Chicago Dryer Co.
- CHICAGO**, pearl buttons, Chicago Pearl Button Co.
- CHICO**, alkali soap builder, Wyandotte Chemicals Corp.
- CHIEF**, rug equipment, Chief Mfg. Co.
- CHIEF**, truck tires, Mohawk Rubber Co.
- CHIEF COMMERCIAL**, truck tires, Mohawk Rubber Co.
- CHIEF 20**, handkerchief ironer, Huebsch Div., American Laundry Machinery Co.
- CHIEF 25**, handkerchief, napkin ironer, Huebsch Div., American Laundry Machinery Co.
- CHIFFON**, miniature bar soap, Armour & Co.
- CHINALINE**, quick-drying enamel, Barreled Sunlight Paint Co.
- CHLORASOL**, fumigant, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- CHLORESCO**, bleach (calcium hypochlorite), Cowles Chemical Co.
- CHLORETS**, chlorine tablets, Gliss'n Products Co.
- CHLOREX**, chlorinated solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- CHLOR-O-CEL**, sweetener, filter powder, Johns-Manville
- CHLOR-O-FEEDER**, constant rate proportioning pump, Proportioners, Inc.
- CHLOROWAX 40**, liquid chlorinated paraffin, Diamond Alkali Co.
- CHLOROWAX 70**, resinous chlorinated paraffin, Diamond Alkali Co.
- CHOCTAW**, soap builder, Wyandotte Chemicals Corp.
- CHROMALOX**, electric heating equipment, Edwin L. Wigand Co.
- CHROME CONCRETE**, chrome base refractory concrete, Mexico Refractories Co.
- CHROMIX**, refractory material, Quigley Co., Inc.
- CHROMOTEX**, detergent for rug cleaning in the plant, Endriss Chemicals, Inc.
- CHRYSLER-AIRTEMP**, furnaces, boilers, heaters, stokers, Chrysler Corp., Airtemp Div.
- CIDEX**, mildew preventative, deodorant, mothproofing agent, Cidex Corp.
- CIMATAG**, printed tags and marking tags, Cincinnati Marking Tag & Supply Co.
- CIMCO**, cement applied to inner surface of tank, Ford Tank Maintenance Co.
- CINCH**, prespotter, Caled Products Co., Inc.
- CINO**, carpet, laundry and drycleaning tags, black marking ink, Fleischer Mills, Inc.
- CISEL**, cuff brusher, boards, driers, irons, spotting boards and guns, W. M. Cissell Mfg. Co., Inc.
- CLAIM-SAVER**, F.W.I. bundle separators, F. H. Bonn Co.
- CLAIRANESE**, cover cloth, Lewis National Corp.
- CLARCO**, unit heaters, Clarage Fan Co.
- CLARK**, fluid controls, Clark Mfg. Co.
- CLARK 60**, traps, valves, Clark Mfg. Co.
- CLAYBRITE**, machine clay coated paperboard, Cornell Paperboard Products Co.
- CLAYTON**, steam generators, feed water pump, water reater, Clayton Mfg. Co.
- CLEANCUT**, pinkers, Maxant Button & Supply Co.
- CLEANERETTE**, automatic drycleaning machine, E. L. Chrisman Co., Div. Fleetwood-Airflow, Inc.
- CLEANSER 600**, alkali cleaner, Solvay Process Div., Allied Chemical & Dye Corp.
- CLEANSERTAG**, marking tag material, Hollingsworth & Vose Co.
- CLEANSER TAGS**, tags for cleaners, Sidney A. Cizek
- CLEARO**, stripper, Carman & Co., Inc.
- CLEARSIZE**, laundry starch, National Starch Products, Inc.
- CLEARTEX**, laundry starch, National Starch Products, Inc.
- CLEAR-VIEW**, boxes, bags and cellophane products, Clear View Packaging Co.
- CLEAVER-BROOKS**, steam generators, boilers, Cleaver-Brooks Co.
- CLENA-FORM NO. 2**, cleaner, polisher and lubricator for shirt units and body presses, College Chemical Co.
- CLEVELAND**, rug and laundry machinery, Cleveland Rug Cleaning Machinery Co.
- CLEVE-O-CEMENT**, under-floor covering, resurfacing material, Midland Paint & Varnish Co.
- CLIMAX**, overall marking tags, Rusdon Mfg. Co.
- CLINTON**, rug sizing, Clinton Foods Inc.
- CLINTON 5L**, thick boiling starch, Clinton Foods Inc.
- CLIP-A-TAPE**, gummed-tape dispenser, Ideal Stencil Machine Co.
- CLIPPER**, belt-lacing equipment, belt cutters and fasteners, Clipper Belt Lacer Co.
- CLIPPER**, wire lacing, belt lacers, belt cutters, I. B. Williams & Sons
- CLIX**, belt organizer, Time Savers, Inc.
- CLOMAK**, balanced detergent, Wyandotte Chemicals Corp.
- CLOPAY**, hanger protectors, dress guards, Clopay Corp.
- CLOPAY SANITEX**, garment storage bags, Clopay Corp.
- CLOR**, bleach, Pennsylvania Salt Mfg. Co.
- CLORAFIN**, chlorinated paraffin, Hercules Powder Co.
- CLOROSHEEN**, drycleaning detergent, Riverside Mfg. Co.
- COAGULATOR**, rapid combination mixing chamber and settling basin, Hungerford & Terry, Inc.
- COATES**, electric boiler, Coates Electric Mfg. Co.
- COATRITE**, industrial coating, Rathbun Co. Mfg. Co.
- COAT-SEAL**, interior wall coating, Steelcote Mfg. Co.
- CO-AXIAL-FLO**, filter, Zephyr Laundry Machinery Co.
- COBECO**, leather belting, cement, Cornell Belting Co.
- COCALENE**, liquid wetcleaning soap, Wonder Chemical Co.
- COCHICO**, flat leather belting, belt cement, I. B. Williams & Sons
- COCHIN SEB**, solvent and synthetic wetting agent, E. F. Drew & Co., Inc.
- COCHRANE**, steam power plant equipment, Cochran Corp.
- COCANUT OIL**, paste soap, National Cleaners Chemical Mfg. Co.
- COCOGEL**, wetcleaning soap, E. F. Drew & Co., Inc.
- COCOZOP**, coconut oil, wetcleaning, paste soap, Package Chemical Co., Inc.
- COLCOT**, press padding flannel, Southern Mills, Inc.
- COLDSPRAY**, built soap for cool-water washing, Beach Soap Co.
- COLDWATER**, NAPTEX, laundry soap, E. F. Drew & Co., Inc.
- COLD WATER OZONITE**, cold-water soap, Procter & Gamble Distributing Co.
- COLD WATER SOL SUDS**, soap, Lewis National Corp.
- COLE**, leather and suede cleaners and dyes, Cole Leather Cleaners of America
- COLGATE FORMULA 10, 20, 25, 33, 40**, neutral soap flakes and granulated built soap, Colgate-Palmolive-Peet Co.
- COLGATE KWIKSOLVE**, laundry soap, Colgate-Palmolive-Peet Co.
- COLLARIGHT**, collar ironer, shirt-folding machine, Key-Tag Checking System Co.
- COLLA-RITES**, collar supports, M. H. Gronauer Co.
- COLONIAL**, blue, Superior Products Co.
- COLOR BRITE**, soap, Lewis National Corp.
- COLORIX**, stripping agent, Stauffer Chemical Co.
- COLORFIXE**, sour, H. Kohnstamm & Co., Inc.
- COLORFLEX**, leather dyes, Eaton Chemical & Dyestuff Co.
- COLORGO**, powdered stripping agent, A. L. Wilson Chemical Co.
- COLORLUME**, drycleaning soap, Fry Bros. Co.
- COLORSOUT**, powder color stripper, Washine National Sands, Inc.
- COLOR SPARK**, break powders, Wyandotte Chemicals Corp.
- COLORSUDS**, low-temperature soap, H. Kohnstamm & Co., Inc.
- COLORTOP**, plug fuses, Trico Fuse Mfg. Co.
- COLORZOUR**, sour, Washine National Sands, Inc.
- COLOVOLT**, fluorescent lamps, fixtures, General Luminescent Corp.
- COLSON**, wheels, casters, trucks, Colson Corp.
- COLTEX**, cold water soap, medium pH, E. F. Drew & Co., Inc.
- COLUMBIA**, activated carbon, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- COLUMBIA**, blindstitch machines, Columbia Sewing Machine Corp.
- COLUMBIA**, boilers, Columbia Boiler Co.
- COLUMBIA**, detergents, chemicals, Columbia-Southern Chemical Corp.
- COLUMBIA**, drycleaning extractors, used and rebuilt machinery, puff irons, valves, Columbia Laundry Machinery Co.
- COLUMBIA**, drycleaning unit, solvent saver, Columbia Appliance Corp.
- COLUMBIA**, reweaving, inweaving needles, Columbia Needlework Supply Co., Gearhart Runner Knitter Co.
- COLUMBIA BF**, puff iron, Columbia Laundry Machinery Co.
- COLUMBIA GEM**, extractor, Columbia Laundry Machinery Co.
- COMBINATION**, cellophane bags for shirts and sweaters, Clear-View Packing Co.

- COMBINATION OFFSET**, silk finishing press, Excelsior Machinery Co.
- COMBINER CLIPS**, assembling clips, Larton Products Co., Inc.
- COMBINETS**, laundry nets and fabrics, Davis Mills, Inc.
- COMBINO**, ironer padding nets, Tingue, Brown & Co.
- COMBO**, combination checking desk, bag storage unit and garment bagger, Rodin Machinery Co., Div. Rodin Bros.
- COMBUSTIONEER**, automatic coal burner, humidifiers, Steel Products Engineering Co.
- COMBY-R**, laundry nets, Davis Mills Inc.
- COMET**, electric hoist, Chisholm-Moore Hoist Corp.
- COMET**, extractors, Hammond Laundry-Cleaning Machinery Co.
- COMET**, washer, Henrici Laundry Machinery Co.
- COMMANDER**, steel framed platform hand trucks, Fairbanks Co.
- COMMERCIAL**, soap, Rome Soap Mfg. Co.
- COMPACT**, drycleaning machine, Ayr-Mor Machinery Co.
- COMPACT**, low-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.
- COMPAR**, safety gloves, aprons, gasket material, Resistoflex Corp.
- COMPLETE**, laundry soaps, Fry Bros. Co.
- COMPO**, fiber marking tags, Fleischer Mills, Inc.
- COMPO**, marking tags, U. S. Marking Tag Co.
- COMPOSITION 33, 91**, soap builders, Turco Products, Inc.
- COMPOUND 40**, general formula spotter, Keystone Aniline & Chemical Co., Inc.
- CONCO**, stokers, Conco Engineering Works, Div. H. D. Conkey & Co.
- CONDOR**, hose, belting, rolls, Raybestos-Manhattan, Inc.
- CONDONAC**, return-line vacuum pumps for heating systems, Chicago Pump Co.
- CON-D-TEX**, mothproofing agent, Research Laboratories Corp.
- CONNEVILLE-CHIEF**, rug and carpet cleaning equipment, Chief Mfg. Co.
- CONSOLIDATED**, safety and relief valves, Manning, Maxwell & Moore, Inc.
- CON-SEC-U-TAG**, identification systems, invoice, combination, marking, and printed tags, Con-Secu-Tag, Inc.
- CONSTELLATION**, 2 and 3 girl shirt finishing unit, Unipress Co.
- CONTINENTAL**, steam generators, Boiler Engineering & Supply Co.
- CONTINENTAL 18**, self-polishing heavy-duty liquid floor wax, Continental Car-Na-Var Corp.
- CONTINUOUS FLOW**, washer, Bill Glover, Inc.
- CONTIN-U-RAIL**, speed rail, White Machine Co.
- CONVAIR**, converts foot press into air-operated press, New York Pressing Machinery Sales, Inc.
- COOK EXTRACTETTE**, pony extractor, Cook Machinery Sales Co.
- COOK WASHETTE**, open-end washers, Cook Machinery Sales Co.
- COOLAIR**, fans, ventilating systems, American Cooler Corp.
- COOLIDGE**, pad savers, Ink-O Products Co.
- COOLIDGE GRID**, press pad, John E. Coolidge Co.
- COOPER**, pressing stands, bucks, tables, iron carriers, H. P. Cooper & Co.
- COOPER-BESSEMER**, compressors, diesel and gas engines, Cooper-Besmer Corp.
- COORDINATED PROCESS CONTROL**, automatic control, Bristol Co.
- COPALITE**, interior varnish, Barreled Sunlight Paint Co.
- COPEES**, high and low alarms, controls, regulators, governors, valves, Northern Equipment Div., Continental Foundry & Machine Co.
- COPR-TUBE**, copper tube fittings, Dresser Mfg. Div., Dresser Industries, Inc.
- CORONET**, 72-pound drycleaning unit, Detrex Corp.
- CORRUFLEX**, expansion joint, American District Steam Co., Inc.
- COTTAGE**, steel direct-fired water heater, oil-gas, Kewanee Boiler Corp.
- COTTONBLOSSOM**, laundry textiles, Southern Mills, Inc.
- COUNTERBOY**, carton and package taping machine, Better Packages, Inc.
- COUNTERFLOW**, automatic 10-washer counterflow laundering unit, International Laundry Equipment Co.
- COUNTERVEYOR**, counting conveyor, Leebaw Mfg. Co.
- COV-EEZ**, garment hanger shields, Larton Products Co., Inc.
- COVERDUX**, ironer covering, Tingue, Brown & Co.
- COX OF ENGLAND**, manual steam-water mixers, O'Brien Steam Specialty Co., Inc.
- CRAMER**, timers, R. W. Cramer & Co., Inc.
- CRANE**, plumbing fixtures, Crane Co.
- CRAVENETTE**, water repellent, Cravenette Co., U. S. A.
- CREAM FINISH**, starch lubricant, Lewis National Corp.
- CRESCENT**, belt fasteners, plates, rivets, rivet extractors, Crescent Belt Fastener Co.
- CRESCENT**, laundry chemical specialty items, Hood Chemical Co., Inc., Crescent Div.
- CRESCENT**, try-cocks, Wright-Austin Co.
- CRESTEX**, sour, Hood Chemical Co., Inc., Crescent Div.
- CRISRACKS**, clothes racks, E. L. Chrisman Co., Inc.
- CROSBY**, gauges, valves, Crosby Steam Gauge & Valve Co.
- CROWN**, electric-steam irons, steam generators, electric irons, Crown Mfg. Co.
- CROWN**, laundry nets, Davis Mills Inc.
- CRUCIBLE**, stainless steel laundry equipment, Crucible Steel Co. of America
- CRUSADER**, nets, cover cloth, double-face flannel, cover duck, Egan Cotton Mills
- CRYSTALITE**, fluorescent lighting, Crystalite Co., Inc.
- CRYSTAL VICTOR**, laundry starch, Keever Starch Co.
- CRYSTAMET**, sodium metasilicate, Cowles Chemical Co.
- CUB JR.**, steam trap, Wright-Austin Co.
- CUFF BRUSHER**, rotary cuff cleaner, Excelsior Machinery Co.
- CUFF TACKER**, sewing machine, Chandler Machine Co.
- CULLIGAN**, water softening and conditioning equipment, Culligan Zeolite Co.
- CUMMINGS-LANDAU**, laundry equipment, Cummings-Landau Laundry Machinery Co., Inc.
- CURRY**, feed ribbons, J. W. Curry Co.
- CURTIS**, air conditioners, compressors, condensers, hoist tanks, Curtis Mfg. Co.
- CUSTOM**, electric steam generators, Custom Engineering Co.
- CUSTOM**, may, shoulder finisher and shaper, Hopkins Equipment Co.
- CUSTOM-AIR**, large building heating and cooling equipment, Trane Co.
- CUTLER-HAMMER**, electrical equipment, motor control, Cutler-Hammer, Inc.
- CYANEGG**, sodium cyanide, E. I. du Pont de Nemours & Co., Inc.
- CYCLO**, heavy prespinner, R. R. Street & Co., Inc.
- CYCLONE**, exhaust head, Wright-Austin Co.
- CYCLONE**, hand power hoist, Chisholm-Moore Hoist Corp.
- CYCLONE**, washer, Henrici Laundry Machinery Co.
- CYCLONE CONVEYORS**, pneumatic conveyors, Eastern Cyclone Conveyor System, Inc.
- CYCLONE COUNTING MACHINES**, automatic counters for towels, diapers, etc., Eastern Cyclone Systems, Inc.
- CYCLOPS**, needle bearing, Roller Bearing Co. of America
- CYCLOTERM STEAM GENERATORS**, package type boiler, automatic oil or gas fired, Cyclotherm Div., U. S. Radiator Corp.
- CYLON**, wetcleaning detergent, Patek & Co.

D

- DSKL**, concentrated liquid stripper and reducing agent, Carman & Co., Inc.
- DA-CO**, chemicals, cleaners, Davis-Weil Mfg. Co.
- DAHLBERG**, speed-rail conveyors, Dahlberg Machinery Co.
- DAILY DELIVERY**, marking tags, Pittsburgh Tag Co.
- DAINTEX**, wetting agent, Hercules Powder Co.
- DAMASCITE**, ferrous-base machine parts, Amplex Div., Chrysler Corp.
- DAMIT**, pipe joint compound, Quigley Co., Inc.
- DAMP-OAT**, enamel, Wilbur & Williams Co.
- DAMP-TEX**, enamel, Steelcote Mfg. Co.
- DANA**, dyeing process for garments, leather and rugs, Commercial Dye Works
- DANDUX**, canvas baskets, hampers, bags, trucks, C. R. Daniels, Inc.
- DAFEX**, mothproofing compound, Davison Chemical Co.
- DARCO**, activated carbon, Darco Dept. (Atlas powder Co.)
- DARNELL**, wheels, casters, Darnell Corp.
- DATERETTE**, dating machine, American Numbering Machine Co.
- DAVIS**, controls, regulators, valves, Davis Regulator Co.
- DAVIS**, first-aid and emergency equipment, Davis Emergency Equipment Co., Inc.
- DAVIS**, press plates, flexible metal hose, Davis Specialties, Inc.
- DAVIS**, shirt unit, Prosperity Co., Inc.
- DAVIS**, overall tags, Keyes Davis Co., Inc.
- DAVIS NETS**, laundry nets, Davis Mills Inc.
- DAVIS OVERALL TAG**, brass permanent marker, Keyes-Davis Co.
- DAVIS TAG**, permanent overall marker, Keyes-Davis Co.
- DAV Z**, laundry net, Davis Mills Inc.
- DAVOTEX**, leather cleaning and redeyeing, C. O. D. Cleaning & Dyeing Co.
- DAY-SOL**, chlorinated solvent drycleaning soap, Davis-Young Soap Co.
- DC FILTRLO**, adsorbent filter powder, Filtrol Corp.
- DC-15**, size for synthetics, for drycleaners, Keever Starch Co.
- DEAN HILL**, centrifugal industrial power pumps, steam turbines, Dean Hill Pump Co.
- DECAL**, water softener, Washine National Sands, Inc.
- DECALCOMANIA**, truck lettering, pictorials, nameplates, window signs and valances, Meyer-cord Co.
- DEEP ROCK**, naphthas, petroleum solvents, Big Ben Petroleum Products Co.
- DEFENDER**, regulators, recording instruments, Defender Instrument & Regulator Co.
- DEFENDER**, steel-pins, safety pins, hanger assembly clips, Oakville Div., Scoville Mfg. Co.
- DEFLOC**, laundry detergent, Cowles Chemical Co.
- DEHYDRATINE 2A**, water repellent, A. C. Horn Co., Inc.
- DELIBLE**, dissolves indelibles, Warco Laboratories
- DE-LIMER**, lime solvent, E. F. Drew & Co., Inc.
- DELIVR-ALL**, delivery truck, Marmion-Herrington Co., Inc.
- DELUXE**, sizing, Huron Milling Co.
- DE LUXE**, uniforms, Shane Uniform Co., Inc.
- DELUXE MIRZA**, automatic rug cleaning machine, American Laundry Machinery Co.
- DE LUXE STRING**, cord, Milwaukee Printed String Co.
- DEMING**, pumps, Deming Co.
- DEMOTHOL**, mothproofing solution, Signal Chemical Mfg. Co.
- DENOMINATOR**, tabulating machines, Denominator Company, Inc.
- DEODOR**, deodorant, Patek & Co.
- DESOIL**, break powder, Cowles Chemical Co.
- DESTAINER**, penetrating soap, A. L. Wilson Chemical Co.
- D'ESTE**, automatic regulating valves, strainers, etc., D'Este Div., Kaye & MacDonald, Inc.
- DETECTO**, scales, Detecto Scales, Inc.
- DETERSYN**, detergent for use with chlorinated solvents, Riverside Mfg. Co.
- DETEX**, watchmen's clocks, Detex Watchclock Corp.
- DETREX**, drycleaning equipment, solvent still, Detrex Corp.
- DETROIT**, belt lacers, belt cutters, Detroit Belt Lacer Co.
- DETROIT**, valves, W. M. Chace Co.
- DEVERE SPEEDUX DIPMASTER**, water-repellent dip tank, Devere Co.
- DEVILBISS**, compressors, spray guns, hose, Devilbiss Co.
- DEWEY-SHEPARD**, gas and oil fired boilers and water heaters, basepanel radiation, winter-summer air conditioner, Dewey-Shepard Boiler Co.
- DEXTER**, valve reseating machine, Leavitt Machine Co.
- D-FLOX**, laundry detergent, Essential Chemicals Co.
- DIAL**, miniature bar soap, Armour & Co.
- DIAL-O-TIME**, laundry formula timer, Norman Control Co.
- DIAMO**, stripper, stain remover, Lewis National Corp.
- DIAMOND**, ball, revolving and swing joints, Diamond Metal Products Co.
- DIAMOND**, chains, couplings, Diamond Chain Co., Inc.
- DIAMOND**, laundry chemicals, Diamond Alkali Co.
- DIAMOND**, water-treatment compounds, Oshkosh Filter & Softener Co.
- DIAMOND BLUE**, laundry bluing, Diamond Alkali Co.
- DIAMOND DRYCLEANER**, chlorinated cleaning solvent, Diamond Alkali Co.
- DIAMOND O & W COMPOUND**, detergent, Diamond Alkali Co.
- DIAMOND T**, motor trucks, Diamond T Motor Car Co.
- DIAMOND "W"**, soaps, laundry, Los Angeles Soap Co.
- DIAN**, diaper sanitizer, H. Kohnstamm & Co., Inc.
- DIAZOCEL**, for dyeing Celanese and acetate silks, American Aniline Products, Inc.
- DIAZYME**, enzymic digester, Jacques Wolf & Co.
- DICALITE**, anti-static filter powder, Dicalite Div., Great Lakes Carbon Corp.
- DICALITE 7**, filter powder, Dicalite Div., Great Lakes Carbon Corp.
- DICALITE SPEEDPLUS**, straight diatomaceous filter powder, Dicalite Div., Great Lakes Carbon Corp.
- DICALITE SWEETEX**, sweetener, filter powder, Dicalite Div., Great Lakes Carbon Corp.
- DIEHL**, electric motors, fans, Diehl Manufacturing Co., Div. Singer Mfg. Co.
- DIF-EN**, digester, John P. Lynch Co.
- DIGESTALL**, digestive agents, Package Chemical Co., Inc.
- DIGESTENE**, enzymatic digestive agent, Starr Soap & Chemical Co., Inc.
- DIGESTIT**, enzymic digester, Riverside Mfg. Co.
- DIGEST-O-MATIC**, bath tank, Hopkins Equipment Co.
- DIOXY**, drycleaning spotters, chemicals, Preston T. Rhodes
- DIPRAFT**, advertising balloons, Dipcraft Mfg. Co.
- DIPMASTER**, water-repellent dip tank, Devere Co.
- DIP-O-MATIC**, water-repellent dip tank, Hopkins Equipment Co.
- DISAPPEAR-O**, spotting compound, Fry Bros. Co.
- DISCOVERY**, handkerchief buffer, Huebsch Div., American Laundry Machinery Co.
- DISPERSO**, silk and wool drycleaning soap, Spix Products Co.
- DIS-PER-SOL**, break powder, Thompson-Hayward Chemical Co.
- DISPLAY-IT**, shirt display cases, Time Savers, Inc.

- DISTILLENE**, drycleaning soap, Keystone Aniline & Chemical Co., Inc.
- DIVCO**, delivery vehicles, Divco Corp.
- DIX-E-HOLD**, hangers, Marion Mfg. Co.
- DIXIE**, aprons, Minnesota Chemical Co.
- DIXIE**, laundry nets, Southern Mills, Inc.
- DIXIE**, tags, tapes, trouser guards, collar supports, Dixie Hanger Co.
- DIXO**, detergents, drycleaning soaps, grease, oil and paint removers, wetcleaning soap, Dixco Co.
- DIXON STEAM KING**, Scotch marine boiler, Dixon Boiler Works
- DIXON WATERWALL**, Scotch marine boiler, Dixon Boiler Works
- DIZOLV-IT**, oil remover, Kliegman Bros., Inc.
- DO-ALL**, synthetic detergent-built anionic, Armour & Co.
- DOBBY**, mothproofing concentrate, Jay-Dee, Inc., Mfg. Chemists
- DOCTOR BOILER**, boiler water treatment compound, Doctor Boiler, Inc.
- DODGE JOB-RATED TRUCKS**, motor trucks, Dodge Div., Chrysler Corp.
- DOG TEX**, treatment for cat and dog stains, Hild Floor Machine Co.
- DORAN**, hat machinery, Hatters Supply House, Inc.
- DOUBLE CHECK**, zeolite water softener, Elgin Softener Corp.
- DOUBLE DUTY SOUR**, sour and blue combination, Diamond Alkali Co.
- DOUBLE-VALVE**, blanket brusher, American Laundry Machinery Co.
- DOUBLEWEAR**, apron duck, cover cloth, nets, Lewis National Corp.
- DOUGLAS**, corn starch, thin boiling starch, Penick & Ford Ltd., Inc.
- DOVER DYPERCAN**, deodorized diaper container, Dover Stamping Co.
- DOWCLEN**, synthetic cleaning solvent, Dow Chemical Co.
- DOWFUME**, fumigant, Dow Chemical Co.
- DOW-PER**, synthetic solvent, perchlorethylene, Dow Chemical Co.
- DRAIN-DRI**, cellar drainers, Yeomans Bros. Co.
- DRAIN PEP**, drain pipe solvent, Radiator Specialty Co.
- DRAINCONTROL**, condensation drainage device, Fred H. Schaub Engineering Co., Inc.
- DRAVO COUNTERFLO**, heater, Dravo Corp.
- DRAUX**, water repellents, S. C. Johnson & Sons, Inc.
- DRESS'NSPORT**, dress and sport shirt folding machine, G. H. Bishop Co.
- DRESSER**, clamps, couplings, fittings, Dresser Mfg. Div., Dresser Industries, Inc.
- DRESSMASTER**, steam-air garment finisher, Hopkins Equipment Co.
- DREST**, paste type leather finisher, Caled Products Co., Inc.
- DREW**, ironer oil, E. F. Drew & Co., Inc.
- DREW 90 PLUS POWDER**, soap plus medium pH alkali builder and water conditioner, E. F. Drew & Co., Inc.
- DREX-KLEEN**, carbon tetrachloride solvent, Dextrex Corp.
- DRI-BORD**, steam-heated press boards, Kisco Boiler & Engineering Co.
- DRI-BRITE GLOSS**, fur luster, Nycco Products Co.
- DRICO**, air cleaners, filters, separators, strainers, Drico Industrial Corp.
- DRIEX**, water-soluble water repellent, Keystone Aniline & Chemical Co., Inc.
- DRI-FLO DIPIT**, indelible laundry and drycleaning marking set, Dri-Flo Mfg. Co.
- DRI-FOAM**, rug and furniture shampoo, Crossland Mfg. Co., Inc.
- DRI-HAND**, dispenser and moisture regulator, J. W. Steele & Co.
- DRI-RINSE**, drycleaners' sour, Johnson Chemical Industries, Inc.
- DRISEAL**, shirt bands, Driseal Co.
- DRI-SHEEN**, alkaline detergent, Adco, Inc.
- DRI-SHEEN PROCESS**, charged system method of cleaning, Adco, Inc.
- DRISIZE**, synthetic resin sizing for use in petroleum solvent, Eaton Chemical & Dyestuff Co.
- DRI-STEAM**, air cleaners, filters, separators, strainers, valves, Drico Industrial Corp.
- DRISYN**, detergent cleaning soap, E. F. Drew & Co., Inc.
- DRISYN SPOTTERS**, paint, oil, grease, lipstick, spots removers, E. F. Drew & Co.
- DRI-TEX**, detergents, Spix Products Co.
- DRITHERM**, infra-red heat lamps, North American Electric Lamp Co.
- DRI-TOP**, ironing board, G. H. Bishop Co.
- DRI-TRI**, anhydrous trisodium, A. R. Maas Chemical Co., Div. Victor Chemical Works
- DRISUDZ**, laundry alkaline soap, Cowles Chemical Co.
- DRO-GO**, spotting agent, Wilson, A. L., Chemical Co.
- DRUCLOR**, powdered hypochlorite bleach, E. F. Drew & Co., Inc.
- DRUM MASTER**, fur cleaning drum, Walter Haertel Co.
- DRUMMOND**, soaps, oils, detergents, Standard Soap Co. of Camden
- DRUSOAP II**, high-titer neutral soap, E. F. Drew & Co., Inc.
- DRUSOAP P**, high-titer 98% neutral soap, E. F. Drew & Co., Inc.
- DRUZOL**, heavy-duty detergent, E. F. Drew & Co., Inc.
- DRY BRIGHT**, liquid wax for floors, Riverside Chemical Co.
- DRY CHEMICAL**, fire extinguishers, American-La France-Foamite Corp.
- DRYCLEAN**, spot remover, E. I. du Pont de Nemours & Co., Inc.
- DRYCO**, spotting units, finishing equipment and steam condensers, Dryco Corp.
- DRYCOMATIC**, steam-electric iron, Dryco Corp.
- DRYCON-CARCO**, intensified drycleaning detergent, Carman & Co., Inc.
- DRYERETTE**, dryers, hot air, gas-fired, Hoyt Mfg. Corp.
- DRY MASTER**, clothes tumbler, National Dryer Mfg. Co.
- DRYMASTER**, drying cabinets, Hopkins Equipment Co.
- DRY-O-MATIC**, signal and alarm control for tumblers, Rosenthal Mfg. Co.
- DRY-O-WET**, spot remover, Slater-Robbins Co., Inc.
- DRYSET**, vacuum systems, Lamson Corp., Blower Div.
- DRY-SOPE**, drycleaning soap, Murphy Sales Co.
- DUAL**, steam traps, American District Steam Co., Inc.
- DUALCRAFT**, press pads, Padcraft Corp.
- DUAL-DUTY TAG-O-ELECTRIC**, tag-marking and attaching machine, Textile Marking Machine Co., Inc.
- DUBLECOTE MULTI-SHINGLES**, asphalt roofing shingles, Barrett Div., Allied Chemical & Dye Corp.
- DUBLIFE**, replacements for collars, cuffs, neckbands and trouser pockets, Dublife Collar Co.
- DUCO**, finishes, E. I. du Pont de Nemours & Co., Inc.
- DUFEEL**, laundry nets, Southern Mills, Inc.
- DUKE**, trouser guards, suit, dress and drape hangers, Memphis Hanger Co. and Pittsburgh Hanger Co.
- DULUX**, finishes, E. I. du Pont de Nemours & Co., Inc.
- DUNAWAY**, spot removers, digesters, H. D. Dunaway & Co.
- DUO**, ironer, Zephyr Laundry Machinery Co.
- DUODEX**, carpet antiseptic, Carman & Co., Inc.
- DUO-TEX CONC.**, drycleaning soap, Keystone Aniline & Chemical Co., Inc.
- DUPLEX**, collar supports, Time Savers, Inc.
- DUPLEX**, vacuum cleaner, General Electric Co.
- DUPLEX-SLEEVE**, expansion joint, American District Steam Co., Inc.
- DUPONOL**, fatty alcohol sodium sulfate, du Pont de Nemours, E. I. & Co., Inc.
- DUO-NYL**, expander pad covers, F. H. Bonn Co.
- DURABILT**, automatic folding electric iron, Waring Products Corp.
- DURABILT**, laundry and drycleaning washer, Gardner Machinery Corp.
- DURABLE**, fiber boxes and shipping cases, Durable Fibre Sample Case Co.
- DURABLE**, wire pressboard for velvet and nap fabric materials, American Pressboard Co.
- DURACAL**, covers and padding combinations, Patek & Co.
- DURAFLEX**, stokers, Canton Stoker Corp.
- DURO**, blow-off valve, Lunkenheimer Co.
- DURO**, press covers, R. Lally Co.
- DUROIL**, fiber sheet packing, Raybestos-Manhattan, Inc.
- DUROTEX**, press covers, R. Lally Co.
- DUST-PROOF**, sweeping compound for floors, Riverside Chemical Co.
- DUST STOP**, air filters, Owens-Corning Fiberglas Corp.
- DUTCH-MILL**, diaper and diaper can deodorants, Van Chemical Co.
- DU-TEX**, stain remover, Warco Laboratories
- DUTTON**, boilers, pumps, Hapman-Dutton Co., Dutton Boiler Div.
- DUX COTE**, water repellent, Eaton Chemical & Dyestuff Co.
- DUX-IT**, solvent-soluble water repellent, Keystone Aniline & Chemical Co., Inc.
- DWYER**, gauges, indicators, meters, F. W. Dwyer Mfg. Co.
- DYCO-SIZE**, garment retexturing compound, Davies-Young Soap Co.
- DYDROSITE**, stripping agent, Nu-Pro Mfg. Co.
- DYE PADS**, pads for "spot dyeing," Caled Products Co., Inc.
- DYNA-MATIC**, open-end washer, Hammond Laundry-Cleaning Machinery Co.
- DYNAMIC DUMPER**, unloading washer, Miller Laundry Machinery Co.
- DYNASOPE**, concentrate, drycleaning filter soap with antiseptic and mothproofing, A. F. Wolke Co.
- DY-100**, liquid drycleaning soap, Davies-Young Soap Co.
- DYPERCAN**, sanitary diaper cans, Dover Stamping Co.
- DYSCO**, wetcleaning silk and wool soap, Davies-Young Soap Co.
- DYSOLVO**, soap, Davies-Young Soap Co.
- DY-SULPH**, synthetic wetcleaner, Davies-Young Soap Co.
- DYTEX RUSTERASER**, rust remover, Dytex Chemical Co.
- DYTIMT BLUE**, bluing for use in washing machines, North American Dye Corp.
- DYTIMT DYE**, dye for use in washing machines, North American Dye Corp.
- DYWHITE**, whitener for use in washing machines, North American Dye Corp.
- EFTT**, electric power fork truck, Lewis Shepard Products, Inc.
- EASTON**, woven cotton belting, Victor Balata & Textile Belting Co.
- EASY-ON**, wood strut hanger, Nagel Coat Hanger Co.
- EASY PRESS**, manually operated drycleaning press, Goldman Pressing Machine Corp.
- EASY-TO-SEW**, replacement collars, Zuckerberg Corp.
- ECCO**, blues, ironer oil, spot removers, repellents, prespotters, tints, soaps, Eaton Chemical & Dyestuff Co.
- ECCODUX**, water repellent, Eaton Chemical & Dyestuff Co.
- ECCOFORM**, spot remover, Eaton Chemical & Dyestuff Co.
- ECCO KOB**, odor neutralizer, Eaton Chemical & Dyestuff Co.
- ECCOSIZE**, textile finish, Eaton Chemical & Dyestuff Co.
- ECLIPSE PIONEER**, flexible metal hose, Eclipse Pioneer Div., Bendix Aviation Corp.
- ECO**, hand cream, Davis Emergency Equipment Co., Inc.
- ECO**, watchmen's clocks, Detex Watchclock Corp.
- ECONO**, drycleaning soap, Package Chemical Co., Inc.
- ECONO**, sour, Diamond Alkali Co.
- ECONO**, synthetic solvent drycleaning unit, Vic Cleaning Machine Co.
- ECONO-CAL**, drycleaning detergents, Caled Products Co., Inc.
- ECONOFEEED**, boiler feed pump and condensate return system, Hapman-Dutton Corp., Dutton Boiler Div.
- ECONOMASTER**, boiler, Hapman-Dutton Co., Dutton Boiler Div.
- ECONO-MATIC**, drycleaning unit, Prosperity Co., Inc.
- ECONOMIC**, boilers, Erie City Iron Works
- ECONOMIST**, boiler, Hapman-Dutton Co., Dutton Boiler Div.
- ECONOMITE REGISTERS**, autographic registers, Autographic Register Co.
- ECONOMIZER**, boiler, Hapman-Dutton Co., Dutton Boiler Div.
- ECONO MOISTLESS**, paper bands, Economy Tablet & Paper Co.
- ECONOMY**, drycleaner's bag, Diem & Wing Paper Co.
- ECONOMY**, hanger bar covers, Phoenix Products Co.
- ECONOMY**, hanger forming machine, Economy Hanger Machine & Equipment Co.
- ECONOMY**, marking pins, Keyes-Davis Co.
- ECONOMY**, sour, Superior Products Co.
- ECONOMY**, tumblers, drycleaning units, U. S. Hoffman Machinery Corp.
- ECONOMY MODEL PARIS**, steam-air garment finisher, Garment Finishing Equipment Corp.
- ECONO-PAK**, small order register, Econo-Pak Register Co.
- ECONO-PER**, cold synthetic drycleaning unit, Vic Cleaning Machine Co.
- ECONO-SCOOP**, steel weighing hand scoop, Blenco Co.
- ECONOTHERM**, steam boilers, Hapman-Dutton Co., Dutton Boiler Div.
- ECON-O-VEYOR**, laundry conveyors, Shuler Conveyors, Inc.
- EFELO**, finishing equipment, Draper-eze Equipment Co.
- EGAN**, ironer and press padding, feed ribbons, Egan Cotton Mills
- EGRY ELITE**, register, business system, Egly Register Co.
- 1838**, marking ink, liquid laundry blue, Eaton Chemical & Dyestuff Co.
- 886**, strong soap formula, R. R. Street & Co., Inc.
- ELAINE**, red oil (oleic acid), Emery Industries, Inc.
- ELANITE**, soaps, laundry, Los Angeles Soap Co.
- ELASTICUM**, roof cement, roof coating, Barrett Div., Allied Chemical & Dye Corp.
- ELCCO**, garment press, steam puffer, spotting and finishing machine, E. L. Chrisman Co., Div. Fleetwood-Airflow, Inc.
- ELCONITE**, standard greensand zeolite, Elgin Softener Corp.
- ELDURITE**, synthetic zeolite, Elgin Softener Corp.
- ELECTRO**, water conditioner, Stomac Engineering Co., Inc.
- ELECTROCLENE**, drycleaning washers, Troy Laundry Machinery Div., American Machine & Metals, Inc.
- ELECTROFLUID**, motorized hydraulic drive, Link-Belt Co.
- ELECTRO LIFT HOISTS**, hoists, Electro Lift, Inc.
- ELECTROMANUAL**, washer, Troy Laundry Machinery Div., American Machine & Metals, Inc.
- ELECTROMATIC**, washer, Troy Laundry Machinery Div., American Machine & Metals, Inc.
- ELECTRO-MEND**, mending machines and tabs, Simmons Machine Co.
- ELECTRO NEUTRALIZER**, water-conditioning apparatus for steam boilers, Electro Chemical Engineering Co., Inc.
- ELECTRUNITE**, stainless steel tubing, Republic Steel Corp.
- ELGIN**, water softening and conditioning equipment and chemicals, water filters, Elgin Softener Corp.

- ELITE, ironer covercloth, Tingle, Brown & Co.
 ELITE TRU-PAK, autographic register, Egly Register Co.
 ELLIS, laundry machinery, Ellis Drier Co.
 ELMO, stripper, A. L. Wilson Chemical Co.
 ELNA, sewing, mending machine, Mark-O Corp.
 EMERALD, felt, flannel, Pittsburgh Waterproof Co.
 EMERSOL, stearic acid, Emery Industries, Inc.
 EMPIRE, firebrick, A. P. Green Fire Brick Co.
 EMPIRE, steam traps, American District Steam Co., Inc.
 EMRENE, O.D., concentrate for petroleum dry-cleaning, Wonder Wash Corp.
 EMRENE WET SIZE, resizer for wetcleaned garments, Wonder Wash Corp.
 EMULSIVE, wheat starch, Keever Starch Co.
 ENCO, gas-oil burners, baffles for boilers, Fuel Oil Feed Engineer Co.
 ENDOR, steam tumbler, Hammond Laundry-Cleaning Machinery Co.
 ENDURO, coil-spring press pad, Zeidler Mfg. Co.
 ENDURO, laundry detergents, chemicals, Aurora Manufacturing Co.
 ENDURO, stainless steel, Republic Steel Corp.
 ENERGETIC, wetcleaning synthetic detergent, Armour & Co.
 ENGINAIR, compressor, Westinghouse Air Brake Co., Industrial Products Div.
 ENZ-O-SAN, powdered digester, Huntington Laboratories, Inc.
 ENZYMERSE, enzymic digester, George E. Mead Co.
 EYZ, drycleaning press, Prosperity Co., Inc.
 ERAD-INK, ink remover, A. L. Wilson Chemical Co.
 ERADOL, color stripper, National Cleaners Chemical Mfg. Co.
 ERASINE, ink remover, Lewis National Corp.
 ERIE CITY, boilers, underfeed stokers, Erie City Iron Works
 ERIFON, flame retardant, E. I. du Pont de Nemours & Co., Inc.
 ERMCO, rug conveyor and equipment, American Laundry Machinery Co.
 ERMINE, starch, Washine National Sands, Inc.
 ERUSTICATOR, rust stain remover, Pennsylvania Salt Mfg. Co.
 ERUSTO, spot and stain remover, dry and wet-cleaning soaps, laundry sour, Pennsylvania Salt Mfg. Co.
 ERUSTO-CETIC, sour for wetcleaning, Pennsylvania Salt Mfg. Co.
 ERUSTOCIDE, laundry sour, Pennsylvania Salt Mfg. Co.
 ERUSTO DDT EMULSION, insecticide, Pennsylvania Salt Mfg. Co.
 ERUSTO ENERGEX, drycleaning products, Pennsylvania Salt Mfg. Co.
 ERUSTOLIN, laundry sour, Pennsylvania Salt Mfg. Co.
 ERUSTO LIQUI-BLUE, laundry blue, Pennsylvania Salt Mfg. Co.
 ERUSTO-MAX, laundry sour, Pennsylvania Salt Mfg. Co.
 ERUSTO-RAY, laundry sour, Pennsylvania Salt Mfg. Co.
 ERUSTO SALTS, laundry sour, Pennsylvania Salt Mfg. Co.
 ERUSTOSOL, laundry sour, Pennsylvania Salt Mfg. Co.
 ESCO, high pH soap builder, Cowles Chemical Co.
 ESCOFOS, soap regenerator, Cowles Chemical Co.
 ESCOLITE, medium pH soap builder, Cowles Chemical Co.
 ESCOLOID, medium pH soap builder, Cowles Chemical Co.
 ESCOL 77, high pH soap builder, Cowles Chemical Co.
 ESCOMO, liquid blue, Cowles Chemical Co.
 ESCO-SAVON, hot-water soap (east of Rockies only), Cowles Chemical Co.
 ESPECCO, solvent, starches, Superior Products Co.
 ESSO BOND, air-setting, high-temperature cement, Ramtite Co.
 ETERNIT, asbestos-cement sheets for roofs and sidewalls, Ruberoid Co.
 ETHRO, rug and carpet shampoo, North Coast Chemical & Soap Works
 ETHERNUM, pitch base paint, Barrett Div., Allied Chemical & Dye Corp.
 EULANS, mothproofing agents, General Dyestuff Corp.
 EURECO, ventilating system, Eure & Co.
 EUREKA, belt dressing, Standard Oil Co.
 EUREKA, marking pins, Keyes-Davis Co.
 EUREKA, wetcleaning laundry powder, North Coast Chemical & Soap Works
 EVALPAK, valve packing, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.
 EVALTHRUST, valve bushings, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.
 EVERDUR, copper silicon alloy, American Brass Co., American Metal Hose Branch
 EVERLASTIC, roofing, Barrett Div., Allied Chemical & Dye Corp.
 EVERLASTING, valves, Everlasting Valve Co.
 EVER-LITE, lighting fixtures, Ever-Lite Co.
 EVER MOIST, dampening device, Time Savers, Inc.
 EVER-MOIST, nylon containers, F. H. Bonn Co.
 EVERREADY, hat and garment boxes, Automatic Paper Box Corp.
 EVERWEAR, double-face padding, Tingle, Brown & Co.
 EVRTYTE, steel valves, Strong, Carlisle & Hammond Co.
 EWART, detachable link belt chains, Link-Belt Co.
 EWING PONY, wood pony laundry washer, R. Ewing & Sons, Inc.
 EXACTO, pre-numbered marking tags, hanger racks, loop assembly hooks, clips, belt wheel, rack dividers, Perfection Products Co. & Identification, Inc.
 EXCEL, paint and grease spotter, Murphy Sales Co.
 EXCELAL, starch finish, Eaton Chemical & Dyestuff Co.
 EXCELL-O, cellophane tying ribbon, Freyberg Bros.-Strauss, Inc.
 EXCELSIOR, hatters' and steam spotting, finishing equipment, Excelsior Machinery Co.
 EXHAUSTEAM, steam purifier, Morehead Manufacturing Co.
 EXIDE, storage batteries, Electric Storage Battery Co.
 EXDUST, industrial vacuum cleaners, Lamson Corp., Blower Div.
 EXPANDO, collar supports, Time Savers, Inc.
 EXPELSON, pneumatic sewage ejector, Yeomans Bros. Co.
 EXPRESS-LINE, conveyors, B & G Machinery Co., Inc.
 EXSIZE-T, starch-removing desizing agent, Pabst Sales Co.
 EX-SOIL-O, drycleaning soap, Davies-Young Soap Co.
 EXTRACTETTE, extractor, Cook Machinery Sales Co.
 EXTRACTING WASHER, washing and extraction in one operation, Butler Mfg. Co.
 EXTRA SOLUBLE COLORFIXE, sours, H. Kohnstamm & Co., Inc.
 EXZYME, enzymic spotting agent, Pabst Sales Co.
 E-Z IRON, finishing-board pads, Fullo Corp.
 EZ-OFF, metal cleaner, Boston Clip & Tag Co.
 E-Z SQUEEZE, water spray gun, Dryco Corp.
 E-Z TO SEW, pillow ticks, Zuckerberg Co.
 EYZ, drycleaning press, Prosperity Co., Inc.
 EYZI-KLEEN, strainers for pumps and pipelines, Blackmer Pump Co.
- F**
- F.B., loose-leaf holders, Speed Products Co., Inc.
 F.B.C., drycleaning detergent, Fry Bros. Co.
 F & E, underfeed stokers, Flynn & Emrich Co.
 FF, tickings, Freund, Freund & Co.
 FABRICARE, drycleaning finishing equipment, Dryco Corp.
 FABRICHEAD, puff irons, Excelsior Machinery Co.
 FABRI CLENE, drycleaning detergents, Lincoln Research, Inc.
 FABRICOL, drycleaning soap, R. R. Street & Co., Inc.
 FABRIC-RENEWING, press plates, Davis Specialties, Inc.
 FABRI FIN, fabric conditioner, Lincoln Research, Inc.
 FABRI LUBE, stain sealer, Lincoln Research, Inc.
 FABRI PELS, water repellents, Lincoln Research, Inc.
 FABRI SIZES, dry and wet sizings, Lincoln Research, Inc.
 FABRIT, heat-sealing mending tape, Madison Products Co.
 FABTEX, water repellent, Merson Products Co.
 FAB-TEX, water repellent, Spix Products Co.
 FAIRBANKS, valves, trucks, casters, wheels, Fairbanks Co.
 FAIRBANKS-MORSE, pumps, motors, engines, stokers, Fairbanks Morse & Co.
 FAMILY WORK STARCH, laundry starch, Keever Starch Co.
 FAMOUS 50, hand numbering machine, Roberts Numbering Machine Co.
 FAN-PAC, packaged ventilation, DeBothezat Fans Div., American Machine & Metals, Inc.
 FANTOM-FAST, invisible identification system, National Marking Machine Co.
 FASEL, prespotter, Package Chemical Co.
 FASTEX, spot remover, Starr Soap & Chemical Co., Inc.
 FASTOGENE, textile finishes and assistants, American Aniline Products, Inc.
 FAWR, accessory equipment, Fawr, Inc.
 FEATHER, air compressor valves, Worthington Pump & Machinery Corp.
 FED TEX, industrial wiping towels, Federal Textile Corp.
 FELAN, durable water-repellent finish, E. I. du Pont de Nemours & Co., Inc.
 FEND, protective hand cream, Mine Safety Appliances Co.
 FENT-ONAMEL, labels, Fenton Label Co.
 FERA-FLOW, non-slip paint, American Abrasive Metals Co.
 FEROCATOR SALTS, laundry sour, Pennsylvania Salt Mfg. Co.
 FERRENEWO, angle check and globe valves, Lunkenheimer Co.
 FERRO, sours, Diamond Alkali Co.
 FERROSAND, iron-removal filters, Hungerford & Terry, Inc.
- FERROX, non-slip flooring composition, American Abrasive Metals Co.
 FIBERGLAS, spun glass yarn for fabrics and insulating, Owens-Corning Fiberglas Corp.
 FIBERROLLS, for use with marking machines, Textile Marking Machine Co., Inc.
 FIELD, draft controls, Conco Engineering Works, Dmv. H. D. Conkey & Co.
 FIELDEN, liquid level control instrument, Fielden Instrument Corp.
 50-BALL, concentrated drycleaning soap, National Cleaners Chemical Mfg. Co.
 FILPRO, vacuum still, U. S. Hoffman Machinery Corp.
 FILTERMASTER, solvent filter, Hopkins Equipment Co.
 FILTER-SOL, liquid drycleaning soap, Davies-Young Soap Co.
 FILTERSTILL, filters, Martin Equipment Co., Div. American Laundry Machinery Co.
 FILTROL, DC, adsorbent filter aid, Filtrol Corp.
 FILTROLENE, synthetic drycleaning soap, Slater-Robbins Co., Inc.
 FILTRON, electronic filter, U. S. Hoffman Machinery Corp.
 FILTROSAN, drycleaning soap, Stoddard solvent, Slater-Robbins Co., Inc.
 FILT-R-OUT, liquid drycleaning soap, Caled Products Co., Inc.
 FINISH 21, dye fixer, Apex Chemical Co., Inc.
 FINNELL, starch reclaimers, Lewis National Corp.
 FIREBOX, coal, oil, gas stokers, high and low pressure, Kewanee Boiler Corp.
 FIRE-CHEX, roofing shingles, Philip Carey Mfg. Co.
 FIRECRETE, refractory cement, Johns-Manville
 FIREITE, asbestos furnace cement, Johns-Manville
 FIREYE, safeguards, controls, Combustion Control Corp.
 FIREFLY, asbestos pads, Firefly Asbestos Products Co.
 FIRE GUARD, insulation, Philip Carey Mfg. Co.
 FIRE GUN, fire extinguishers, American-La France-Foamite Corp.
 FIT-ALL, sleeve forms, Davis Specialties, Inc.
 FITFOLD, boiler return systems, U. S. Hoffman Machinery Corp.
 5-L, laundry starch, Clinton Foods Inc.
 FLAG-TAGS, special tags, Stry-Lenkoff & Co.
 FLALON, nylon flannel for press pads, Burgess-Berliner Associates
 FLAME CHEK, flameproofing agent, Chek Products, Inc.
 FLAME PROOF WXX, flameproofing agent, Apex Chemical Co., Inc.
 FLAMONEL, Monel press pads, Resillo Co.
 FLAN-I-LESS, metal press pads, X. S. Smith, Inc.
 FLASH-O-MATIC, marking machine, marking tags, Flash Fast Marker Co.
 FLETCHER, extractor, Fletcher Works, Inc.
 FLEXCO, belt fasteners, Flexible Steel Lacing Co.
 FLEXFORM, garment shaper-drier, Tri-Pak Machinery Service, Inc.
 FLEXIMATIC, linen folder, Troy Laundry Machinery Div., American Machine & Metals, Inc.
 FLEXITE, rubber buckets, dippers, funnels, B. F. Goodrich Co.
 FLEXOL, starch, Washine National Sands, Inc.
 FLEXOL DOP, plasticizer to soften hardened scotchproof innerlinings, Eaton Chemical & Dyestuff Co.
 FLEXON, corrugated expansion joints, Flexonics Corp.
 FLEX V, belt fasteners, Flexible Steel Lacing Co.
 FLINT CHIPS, neutral soaps, Armour & Co., Industrial Soap Div.
 FLOATS OFF, liquid synthetic detergent, J. Holcomb Mfg. Co.
 FLO-KLEAR, soap for charged systems, Pennsylvania Salt Mfg. Co.
 FLOORKOTE, enamel, Tropical Paint & Oil Co.
 FLOORMASTER, trucks, Lewis-Shepard Products, Inc.
 FLOOR-SAN, floor cleaning compound, Huntington Laboratories, Inc.
 FLOOR-VEYOR, permanent installation power belt conveyor, Rapids-Standard Co., Inc.
 FLO-VEYOR, batch type pneumatic conveyor, Brady Conveyors Corp.
 FLOWRATER, solvent meter for filters, Fischer & Porter Co.
 FLUFFED EDGE, padding cotton, Pittsburgh Waterproof Co.
 FLUTEX, fabric conditioner, textile softeners, National Textile Chemical Co.
 FLORIUM, fluorescent fabric finish, Beach Soap Co.
 FLUSH-KLEEN, sewage ejectors, Chicago Pump Co.
 FLUTRON, ruffle ironer, Maxant Button & Supply Co.
 FOAMANEL, sponge press pads, Resillo Co.
 FOAM-ASBESTOS, foam rubber laminated dry-cleaning pad, Gustin-Kramer Co.
 FOAMITE, fire extinguishers, American-La France-Foamite Corp.
 FOAMSUDS, liquid coconut soap, E. F. Drew & Co., Inc.
 FOLD-A-WAY, shirt baskets and trucks, Time Savers, Inc.
 FOLD-KING, shirt-folding device, Time Savers, Inc.
 FOLDMASTER, flatwork folder, American Laundry Machinery Co.

G

FOLDOMAT, portable small flatwork folding, stacking, counting machines, Pioneer Development Co.

FOLDRITE, flatwork folder, American Laundry Machinery Co.

FOLDRITE, shirt folding and finishing equipment, Time Savers, Inc.

FORCE-FLO, blast type convactor with fan, Trans Co.

FORD, gasoline trucks and engines, Ford Div., Ford Motor Co.

FORMANIL, aniline dyes, American Aniline Products, Inc.

FORMATIC, automatic shirt folder, American Laundry Machinery Co.

FORMATIC, shirt unit and presses, American Laundry Machinery Co.

FORM-A-TIME CONTROL, washer timer, Van Chemical Co.

FORMATROL CYCLE TIMER, automatic washer control, Prosperity Co., Inc.

FORM FIT, garment hangers, Pacific Coat Hanger Mfg. Co.

FORMFIT, shirt protectors, Sutherland Pater Co.

FORM-MASTER, payroll system, Todd Co., Inc.

FORMMASTER, portable forming machine, Walter Haertel Co.

FORM-RITE, collar shaper, Huebsch Div., American Laundry Machinery Co.

FORMULA CONTROLS, INC., formula control for washers, Formula Controls, Inc.

FORMULA E-23, concentrated detergent, Marshall Co.

FORMULA 177, synthetic soap powder, West Side Corp.

FORMULA S, built, powdered, low-titer soap, Swift & Co.

FORMULA 12, drycleaning soap, Package Chemical Co., Inc.

FORMULA W-51, ink remover, A. L. Wilson Chemical Co.

FORSE MASTER, presses, laundry and drycleaning equipment, Forse Equipment Corp.

FOSKLOH, chlorinated sodium phosphate, Westvaco Chemical Div., Food Machinery & Chemical Corp.

FOSTER-STEPHENS, window posters, photograph-posters, sales promotion material, newspaper mats, Foster-Stephens, Inc.

FOUR-ACES, synthetic wetcleaner in powder form, National Cleaners Chemical Mfg. Co.

409, liquid drycleaner, Adco, Inc.

411, powdered synthetic detergent, Armour & Co.

FOUR STAR, wheat paste starch, Keefer Starch Co.

422, built anionic synthetic detergent, Armour & Co.

FOXBORO, indicating, recording, controlling instruments, Foxboro Co.

FRAC-TO-CRETE, castable refractory, Ramtite Co.

FRANKLIN, rug hoists, Franklin Rug Machinery Co.

FRANKLIN'S, cement treatment, cleaners, polishes, waxes, wood seal, Franklin Research Co.

FRATEX, cotton pads, covers and blanket for drycleaning presses, Franklin Textile Mills

FRE-BIR-PAC, cloth counters, automatic towel and diaper counters, Fre-Bir-Pac, Inc.

FREE-VANE, air-operated controller, Bristol Co.

FREE-VANE, electric controller, Bristol Co.

FREMONT, rubber floor tile, mats, matting, Fremont Rubber Co.

FRESH-AIR MAKER, fans, blowers, Schwitzer-Gummins Co.

FREUND, tickings, Freund, Freund & Co., Inc.

FRIGIDAIRE, air conditioners, Frigidaire Div., General Motors Corp.

FRINGE-IT, fringe cleaner, Certified Chemical & Equipment Co.

FRONTIER BRAND, specialties, Riverside Chemical Co., Inc.

FROST-PROOF, pipe covering and blocks, Ruberoid Co.

FRUGAL, soap, Minnesota Chemical Co.

FRYBRO, black indelible marking ink, ironer oil, Fry Bros. Co.

FRYE, dye dippers, E. B. Frye & Son

FRY'S SPECIAL, clipper laced aprons, Fry Bros. Co.

F. S. RUBBER MARKERS, colored identification markers, Skrandel Co.

FUEL-SAVER, boilers, International Boiler Works Co.

FUL-FLO, laundry nets and fabrics, Davis Mills Inc.

FULLMATIC, washers, Troy Laundry Machinery Div., American Machine & Metals, Inc.

FULTON, laundry nets, Southern Mills, Inc.

FULTON, small-horsepower steam boilers, Fulton Boiler Works, Inc.

FUME-FITE, acid resisting enamel, Tropical Paint & Oil Co.

FUMOL, mothproofing agent, Fumol Corp.

FUR-E-OIL, re-oiling and softening agent for furs and leathers, Package Chemical Co., Inc.

FUR-LASTIC, leather softener, Fur-Lastic, Inc.

FURMASTER, fur cleaning equipment, Walter Haertel Co.

FURMOST, chart for estimating repairs and remodeling of furs, Mannie Rothleder

FURNAS-CRETE, castable refractory, Mexico Refractories Co.

FUR-RAY, fur cleaner and reconditioner, Jay-Dee, Inc., Mfg. Chemists

FURTEX, fur finishing equipment, Furtex, Inc.

FUR-FEEDER, stokers, American Coal Burner Co.

GFD'S, hot air dryers, Hoyt Mfg. Corp.

GFTT, gas power fork truck, Lewis-Shepard Products, Inc.

G & G, liquid or powdered stripper, bleacher, G & G Chemical Co.

GOP, grease, oil and paint remover, Eaton Chemical & Dyestuff Co.

GABRIEL, boilers, heat exchangers, pressure tanks, Gabriel Boiler & Fabrication Co.

GALVANUM, for galvanized iron, Vita-Var Corp.

GARCO, hangers, wire trouser guards, collar supports, Garment Hanger Co.

GARD, combined flameproofing and mothproofing agent, U. S. Chemical Products Co.

GARDNER-DENVER, air compressors, pumps, Gardner-Denver Co.

GAS-HEAT, recirculators, Kisco Boiler & Engineering Co.

GASWAY, gas-heated flatwork ironers, Gasway Corp.

GATES, heavy duty industrial V-belts, Gates Rubber Co.

GAVSOC, valves, Golden-Anderson Valve Specialty Co.

GEARHART, rewinding, inweaving and hosiery mending needles, Columbia Needwork Supply Co., Gearhart Runner Knitter Co.

GEARLESS, washers, Zephyr Laundry Machinery Co.

GEEP, wet and dry spotter, Keystone Aniline & Chemical Co., Inc.

GELATONE, liquid size and finish, R. R. Street & Co., Inc.

GEM, grease cups, Lunkenheimer Co.

GENZYME, enzymic digester, George E. Mead Co.

GENERAL, fire trucks, General Detroit Corp.

GENERAL, perchlorethylene drycleaning units, Martin Equipment Co., Div. American Laundry Machinery Co.

GENERAL ELECTRIC, electrical equipment, General Electric Co.

GENERAL FORMULA, stain remover, G & G Chemical Co.

GERMITEX, sour, Hood Chemical Co., Inc. Crescent Div.

GIANT, built high-titer soap powder, Armour & Co.

GIANT, hydraulic extractor, Strike's Laundry Machinery, Inc.

GIANT KING, net pins, Keyes-Davis Co.

GIBALTAR, marking and printed tags, Commercial Tag Co.

GIBALTAR, nylon flatwork ironer covers, tape cords, asbestos pads and cover, Gibraltar Fabrics, Inc.

GIBALTAR TRI-PRONG CLIP, skirt hanger fastener, Commercial Tag Co.

GIBALTARIZED, nylon laundry nets, Gibraltar Fabrics, Inc.

GIFCO, tags, H. M. Gifford Mfg. Co.

GI-GR-NITE, casters, Clinton Products Co.

GILBARCO, oil burners, Gilbert & Barker Mfg. Co.

GILMER, V-belts, flat belting, woven belting, New York Belting & Packing Co.

GILT EDGE, round leather belting, I. B. Williams & Sons

GLAMORENE, rug cleaner, rug brush, foam upholstery cleaner, Glamorene, Inc.

GLAZEN, fur glazing fluid, Package Chemical Co., Inc.

GLAZOLENE, fur luster, Nycco Products Co.

GLEEM, liquid wetcleaning soap, Trico Chemical Div., Tri-State Equipment Co.

GLENN ANDERSON, paper collar supports, Howe Paper Corp.

GLENZIP, zipper repair tools, supplies, Glen Zip Co.

GLIDE LINER, pressing machines, laundry power presses, Unipress Co.

GLIDER, electric irons, J. W. Steele & Co.

GLIDER, pressing machine, Loyal Textile Machinery Corp.

GLIM, detergent, General Aniline & Film Corp., Special Products Sales Div.

GLISSN, cleaning compounds, mothproofing, Gliss'n Products Co., Inc.

GLOBE, drycleaning marking and strip tags, Globe Ticket Co. of New England

GLOBE, laundry, drycleaning washers, American Cleaners Equipment Co., Div. American Laundry Machinery Co.

GLORY, tallow soap chips, Swift & Co.

GLO-SOAP, drycleaning soap, Starr Soap & Chemical Co., Inc.

GLOSTEX, canvas products, C. R. Daniels, Inc.

GLOVER, cleaners' specialties, Bill Glover, Inc.

GLUV-NU, glove soap, Davies-Young Soap Co.

GLYD-ON, shirt clip, Time Savers, Inc.

GMC TRUCKS, motor trucks, GMC Truck & Coach Div., General Motors Corp.

GO-BACK, conveyors for flatwork presses, Rosenthal Mfg. Co.

GOLDEN FLAKE, laundry soaps, Fry Bros. Co.

GOLD-FLO, boilers and condensation return system, Goldman Pressing Machinery Corp.

GOLD LINE, laundry fabric, Tingle, Brown & Co.

GOLD MEDAL, hatters' chemicals, machinery, Hatters Supply House, Inc.

GOLD MEDAL, nets, Southern Mills, Inc.

GOLDSEAL, colored specialty tapes, Gummed Tape & Devices Co.

GOLD SEAL, rug shampoo, Huntington Laboratories, Inc.

GOLD STAR, feed ribbons, New York Belting & Packing Co.

GOOD FORM, garment hangers, Pacific Coat Hanger Mfg. Co.

GOODRICH, rubber hose, belting, packing, B. F. Goodrich Co.

GORTON, air eliminators, Gorton Heating Corp.

GRAGO, belt dressing, Graton & Knight Co.

GRAND, hatters' equipment, supplies, Maxant Button & Supply Co.

GRANOLITH, paint for brick, concrete, stucco, Barreled Sunlight Paint Co.

GRANTHAM, unloading tumblers, U. S. Hoffman Machinery Corp.

GRANUWAX, granulated wax, Lewis National Corp.

GRAVES & MARSHALL, water heaters, heat exchangers, pressure and storage tanks, Graves & Marshall Co.

GREAVES, silent bakelite gears, milling machines, Greaves Machine Tool Co.

GREENBACK, apron duck, John T. Stanley Co., Inc.

GREEN BUBBLES, soap powder, Minnesota Chemical Co.

GREENCOTE, refractory maintenance coating, A. F. Green Fire Brick Co.

GREEN GLO, oil soap, Allen B. Wrisley Co.

GREEN LABEL, builder compound, Solvay Sales Div., Allied Chemical & Dye Corp.

GREEN OLIVE, soap, Rome Soap Mfg. Co.

GREENSTRIPE, cover cloth, John T. Stanley Co., Inc.

GREEN STRIPE, padding, William E. Hooper & Sons

GREENWOOD, pins, sewing needles, binding tape, Greenwood Textile Co.

GREENZYME, digestive enzyme, Greenville Chemical Co.

GREIF, hangers, guards, Greif Bros. Cooperage Corp., Wire Garment Hanger Div.

GRESOL, break powder, Spence Co.

GREYHOUND, extractor, synthetic washer, wash-wheel, Hercules Laundry Machinery Co., Inc.

GREYHOUND, washers, U. S. Hoffman Machinery Corp.

GREY-ROCK, brake lining, clutch facings, brake blocks, Raybestos-Manhattan, Inc.

GRIMES, air compressors, Grimes Co.

GRIPNET, nylon net closures, Keyes-Davis Co.

GRIPPO, slip-resistant trouser guard, Patek & Co.

GRIPPO GUARD, trouser guards, L. M. Leathers' Sons

GRIPTEX, liquid rubber, Adhesive Products Corp.

GRIP-TITE, bagging rod clamp, C. H. Bishop Co.

GRIP-TITE, marking tags, Liberty Marking Tag Co., Inc.

GRIP-TITE, rug pole hangers, American Laundry Machinery Co.

GROSS, drycleaning extractors, filters, tumblers, washers, Gross Machinery Co., Inc.

GROSSAIR, open-end tumbler, Gross Machinery Co.

GROSS-OMATIC, safety petroleum drycleaning unit, Gross Machinery Co., Inc.

GROSS STAR, grid plates, electric steam irons, ironing boards and tables, L. Behrstock Co.

GROSS-X, tumbler, Gross Machinery Co., Inc.

G-SEAL, pipe joint compound, Quigley Co., Inc.

G-SOL, drycleaning soap, G & C Chemical Co.

GUARANTEED, built, powdered high-titer laundry soap, Swift & Co.

GUARDSMAN, watchclock, Detex Watchclock Corp.

GULF, petroleum and Stoddard solvents, rust preventatives, greases and lubricating oils, Gulf Oil Corp.-Gulf Refining Co.

GUMCRAFT, gummed, mending and printed tapes, Gummed Tape & Devices Co.

GUTH FLUORESCENT, fluorescent lighting equipment, Edwin F. Guth Co.

GUTH GERM-KILLING LIGHTS, bactericidal lighting equipment, Edwin F. Guth Co.

H

H, water soluble grease, Keystone Lubricating Co.

HCR, high capacity cation exchanger, National Aluminate Corp.

HD, belt fasteners, Flexible Steel Lacing Co.

H.K., water repellent, H. Kohnstamm & Co., Inc.

H-O, disinfectant, Huntington Laboratories, Inc.

HTH, soda bleach mix, calcium hypochlorite with soda base, Mathieson Chemical Corp.

HW, liquid soap, Eaton Chemical & Dyestuff Co.

HAERTEL, fumigation cabinet, garment racks, fur vault door, Walter Haertel Co.

HAGAN, combustion control for boilers, Hagan Corp.

HAGAN RING BALANCE, flow meters, Hagan Corp.

HAIROUND, round belting, Graton & Knight Co.

HALL, tanks and tubs, Amos H. Hall & Sons

HAMILTON, casters, dollies, racks, wheels, trucks, Hamilton Caster & Mfg. Co.

HAMILTON, spring padding, American Laundry Machinery Co.

HAMMILL-DAHL, valve controls, valves, Hammill-Dahl Co.

HAMMOND, washers, tumblers, etc., Hammond Laundry-Cleaning Machinery Co.
HANCOCK, globe, angle and gate valves, Manning, Maxwell & Moore, Inc.
HANDEE, presses, Forse Equipment Corp.
HAND-FILM, protective hand cream, National Cleaners Chemical Mfg. Co.
HANDI, bundle and garment racks, Spare Co.
HANDIPAK, portable autographic register, Egry Register Co.
HANDIROL, mending tape, Gummed Tape & Devices Co.
HANDY, button and buckle covering equipment, Handy Button Machine Co.
HANDY, flatwork ironer, American Laundry Machinery Co.
HANDY, gate valves, Lunkenheimer Co.
HANDY, rubber markers, Zuckerberg Co.
HANDYPAK, tag tags, Tagit Co.
HANG-A-LOX, wire hanger rack, Time Savers, Inc.
HANGER-TIES, hanger combiners, H. F. Hanscom & Co.
HANG-RITE, garment hangers, Waldorf Paper Products Co.
HARWID, polyethylene, Olin Cellophane Div., Ecusto Paper Corp.
HAUSER-STANDER, wood tanks, tubs, vats, Hauser-Stander Tank Co.
HAWKEYE, soap flakes, Iowa Soap Co.
HAYS, veriflow meter, visio-ratio gauge, Hays Corp.
HEARTH-CRETE, refractory material, Quigley Co., Inc.
HEART-OAK, leather belting, Graton & Knight Co.
HEAT-O-SEAL, thermium heat-seal labels, Tompkins' Label Service
HEDD, curtain ruffle iron, Burksur Specialties Co.
H. E. FLUELESS, boilers, P. M. Lattner Mfg. Co.
HELE-SHAW, pumps, American Engineering Co.
HELMET, steel safety pins, Risdon Mfg. Co.
HERCULES, extractors, Haring & Stephens Co.
HERCULES, Stoddard solvent and 140° F dry-cleaning units, Hercules Laundry Machinery Co., Inc.
HERCULES CMC, sizing agent, Hercules Powder Co.
HERMAN, delivery truck body, Herman Body Co.
HERO, fire extinguishers, Bostwick Laboratories
HEV-E, combination oil and gas burner, Cleaver-Brooks Co.
HEXAGON, pads, covers, Stadham Co.
HEXAMON, prespotter, Riverside Mfg. Co.
HEXITE, wetcleaning soap, Riverside Mfg. Co.
HEXOL, prespotter, Slater-Robbins Co., Inc.
HEXOLATE, alkali, soap builder, Lewis National Corp.
HI-BASEX A, zeolite, Hungerford & Terry, Inc.
HI-CAP, steam traps, Strong, Carlisle & Hammond Co.
HICORY, soap, flaked or powdered, Los Angeles Soap Co.
HIGH FLASH SHELL-SOL, naphtha petroleum solvent, Shell Oil Co., Inc.
HIGH-SPEED, curtain drier, drying tumbler, American Laundry Machinery Co.
HI-GRADE, leather belting, cement, dressing, Cornell Belting Co.
HI-INVERLAND, zeolite, Hungerford & Terry, Inc.
HILD, rug and carpet shampooing equipment, animal stain remover, Hild Floor Machine Co.
HILO, built low-titer soap powder, Armour & Co.
HILO-CHROME, chrome-base bonding mortar, Mexico Refractories Co.
HILOSET, high-temperature bonding mortar, Mexico Refractories Co.
HI-LUSTRE, fur glazing fluid, Bernard Sirota Co.
HI-SPEED, rail fittings, Time Savers, Inc.
HI-SPEED, washer, Keystone Laundry Machinery Co.
HI-SPEED, washers, Zephyr Laundry Machinery Co.
HI TEST, high-pressure welded boilers, Kewanee Boiler Corp.
HI-TEST, moth spray, Bernard Sirota Co.
HI-JET, drycleaning and laundry washer extractor dryer units, U. S. Hoffman Machinery Co.
HODGES, checking systems, Jack Hodges Specialty Co.
HOFFCO-VAC, portable vacuum cleaner, U. S. Hoffman Machinery Corp.
HOFFMAN, drycleaning, laundry machinery, U. S. Hoffman Machinery Corp.
HOFFMANETTE, silk finishing press, U. S. Hoffman Machinery Corp.
HOFF-MANIKIN, dress shaper, U. S. Hoffman Machinery Corp.
HOFFMATIC, automatic pressing machines, U. S. Hoffman Machinery Corp.
HOLDAPRES, trouser hanger, B & C Engineering Co.
HOLD-FAST, leather belt dressing, I. B. Williams & Sons
HOLITTE, collar supports, Wormstead, Smith & Loomis, Inc.
HOL-TITE, marking tags, Liberty Marking Tag Co., Inc.
HOLT WHIRLWIND, floor polishers, Holt Mfg. Co.
HOMO-FLEX, hose, belting, Raybestos-Manhattan, Inc.

HOODCLOD, bleach, Hood Chemical Co., Inc., Crescent Div.
HOOF, automobile and engine governors, Hoof Products Co.
HOOPERWOOD, cotton press padding, nets, William E. Hooper & Sons
HOOSIER PEARL, corn starch, National Starch Products, Inc.
HOPE, tapes, belting, Hope Webbing Co.
HOPKINS, washing machines, tanks, Hopkins Equipment Co.
HOPKINS ATOMIZER, spotter, Hopkins Equipment Co.
HOPKINS FILTER, horizontal, bag-type filter, Hopkins Equipment Co.
HORN CRETE-FIX, floor resurfacer, A. C. Horn Co., Inc.
HORN DRI-N-TITE, roof coating, A. C. Horn Co., Inc.
HORN FUMEX, fume resistant coating for walls, ceilings, A. C. Horn Co., Inc.
HORNGLAZE, floor wax, A. C. Horn Co., Inc.
HORNOLITH, dustproof for concrete floors, A. C. Horn Co., Inc.
HORSESHOE, shirt sorting bin, Time-Savers, Inc.
HOTT PATCH, heat-setting high-temperature cement, Ramtite Co.
HOWELL, sump pumps, oil burners, Kol-Master Corp.
HOYT, tumblers, Hoyt Mfg. Corp.
HTH, granular bleach, Mathieson Chemical Corp.
HUB, laundry marking tags, Boston Clip & Tag Co.
HUBER, overfeed stokers, Flynn & Emrich Co.
HUBINGER COMPOUND, corn starch, Hubinger Co.
HUDSON BLEACH, sodium hypochlorite, Kuehne Chemical Co.
HUEBSCH, tumblers, Huebsch Div., American Laundry Machinery Co.
HUMIDIGRAPH, direct-reading humidity recorder, Bristol Co.
HUNGERFORD, filters, Hungerford & Terry, Inc.
HYAL, builders, George Stearns Chemical & Mfg. Co.
HYDRAMITE, pumps, American Engineering Co.
HYDRASOL, wetcleaning Celanese soap, Keystone Aniline & Chemical Co., Inc.
HYDRAULIC HANDLIFT and **FOOTLIFT**, trucks, Lewis-Shepard Products, Inc.
HYDRAXTOR, extractor, Zephyr Laundry Machinery Co.
HYDRAZENE, rust remover, National Cleaners Chemical Mfg. Co.
HYDREFEL, naphtha-soluble waterproofing, National Cleaners Chemical Mfg. Co.
HYDROBREAK, laundry chemical, Diamond Alkali Co.
HYDRO CLARO, bleach, Lewis National Corp.
HYDRO-KING, washer, Mid-West Laundry Machinery Mfrs.
HYDROL, drycleaning detergent, Riverside Mfg. Co.
HYDROLATE, laundry chemical, Diamond Alkali Co.
HYDROLINE, booster and large condensate return, Feeders Pump Div., Food Machinery & Chemical Corp.
HYDROPEL, water repellent, National Cleaners Chemical Mfg. Co.
HYDROSITE, reducing bleach, Nu-Pro Mfg. Co.
HYDROSULFITES, stripping agent, Jacques Wolf & Co.
HYDROSULPHOSOL, ointment for burns, Rees-Davis Drugs, Inc.
HYDROTRON, electro-physical water treatment equipment, Heller Laboratories
MYEX, super-duty firebrick, McLeod & Henry Co., Inc.
HYFLO SUPER-CEL, filter powder, Johns-Manville
HYFOAM, detergents, George Stearns Chemical & Mfg. Co.
HYGEA PINE, pine oil disinfectant, Continental Car-Na-Var Corp.
HYGENATOR, pillow renovator and sterilizer, Technical Engineering Corp.
HY-GLOS, gummed, ungummed labels, Tompkins' Label Service
HYGRADE, plastic buttons, Hygrade Button & Supply Co.
HY-I.O., blanket washer, American Laundry Machinery Co.
HY-PAC, bleach, Lewis National Corp.
HY-SET, high temperature bonding mortar, Mexico Refractories Co.
HY-SOL, soap builders, Thompson-Hayward Chemical Co.
HYS-PAR, aluminum and white enamel under-paint, Midland Paint & Varnish Co.
HY-SPOT, substitute for chloroform, Slater-Robbins Co., Inc.
HYTEMPITE, high-temperature bonding mortar, Quigley Co., Inc.
HYTEXAL, built tallow soap, Allen B. Wrisley Co.
HY-V AIR JET, high-velocity concentrated cooling fan, DeBothezat Fans Div., American Machine & Metals, Inc.
HYWHITE, blue, Spare Co.
HY-WHITE, soap, H. Kohnstamm & Co., Inc.

I.D.N., iodine stain remover, Package Chemical Co., Inc.
IMO, rotary pump, De Laval Steam Turbine Co.
I-R, liquid spotter for ink stain removal, Caled Products Co., Inc.
I-R-C, lightweight insulating refractory castable and concrete, Mexico Refractories Co.
I.S., press clamp, slip chain, racks, Ink-O Products Co.
IXL, laundry soaps, Fry Bros. Co.
IDEAL, filter paste soap, National Cleaners Chemical Mfg. Co.
IDEAL, grease cups, Lunkenheimer Co.
IDEALITE, non-glare neon-type light, Ideal Lighting Co., Inc.
IDEAL STYLE A, laundry washer, American Laundry Machinery Co.
IGEPALS, synthetic detergents, General Dye-stuff Corp.
IGEPONS, synthetic detergents, General Dye-stuff Corp.
I.G., centrifugal and propeller fans, unit heaters, Hig Electric Ventilating Co.
IMPACTOR, valve handwheels, Edward Valves, Inc. Subsidiary Rockwell Mfg. Co.
IMPERIAL, asbestos pipe covering and blocks, Ruberoid Co.
IMPERIAL, chest-type ironer, Imperial Laundry Machinery Co.
IMPREGNOL, water repellent, Warwick Chemical Co.
INCO, metal castings, fittings, tubings, nickel alloy fittings, castings, etc., International Nickel Co., Inc.
INCONEL, alloy of nickel and chromium, International Nickel Co., Inc.
INDEL-O-MARK, indelible automatic marking pen, Mark-O Corp.
INDIAN, laundry soap, North Coast Chemical & Soap Works
INDIVIDUAL PROCESS, ironer, Prosperity Co., Inc.
INDIVIDUAL PRODUCTION, washer, Prosperity Co., Inc.
INDUSTRIAL, cylinders, extractors, tumblers, washers, Industrial Laundry Machinery Co., Inc.
INDUSTRIAL, fabric conditioner for wetcleaned garments, Namco Chemical Corp.
INDUSTRIAL, neutral soap chips and powder, Armour & Co.
INEX, laundry rinsing aid, H. Kohnstamm & Co., Inc.
INGERSOLL-RAND, compressors, blowers, pumps, Ingersoll-Rand Co.
INGRAIN, laundry starch, Industrial Grain Products Ltd.
INKEX, ink remover, Patek & Co.
INKGO, liquid oxidizing agent, A. L. Wilson Chemical Co.
INK-KLEEN, indelible ink remover, Kem Laboratories
INK-O, spotting aid, Ink-O Products Co.
INNER-PACK, steel split repair sleeves, Dresser Mfg. Div., Dresser Industries, Inc.
INSTANT, moth killer, Berlou Mfg. Co.
INSTITUTIONAL, fabric preservative, conditioner, Namco Chemical Corp.
INSTITUTIONAL, starch, A. E. Staley Mfg. Co.
INSULAG, plastic refractory lagging and insulating material for high-temperature equipment, Quigley Co., Inc.
INSULBRIX, insulating firebrick, Quigley Co., Inc.
INSULCRETE, refractory material, Quigley Co., Inc.
INTERNATIONAL, chemical mixing machinery, tanks, International Engineering, Inc.
INTERNATIONAL, garment bags, International Paper Co.
INTERNATIONAL, trucks, diesel and gasoline engines, International Harvester Co.
INVADER, pumps, Schirmer-Dornbrier Pump Co.
INVERCARB, zeolite, Hungerford & Terry, Inc.
INVERSAND, water-softening minerals, water softeners, Hungerford & Terry, Inc.
INVINCIBLE, industrial vacuum cleaners, invincible Vacuum Cleaner Mfg. Co.
IN-WEAVING, rewearing, In-Weaving Co. of America
IODASE, iodine stain remover, Greenville Chemical Co.
IPCO, safety equipment, Industrial Products Co.
IRON CITY, duck cover, Pittsburgh Waterproof Co.
IRON FIREMAN, stokers, gas and oil burners, Iron Fireman Mfg. Co.
IRON HORSE, metalware, Rochester Can Co.
IRONOIL, ironing surface lubricant, Patek & Co.
IRON OILITE, machine parts lubricating bearings, Amplex Div., Chrysler Corp.
IRON-RITE, metallic flatwork ironer pads, Fullo Corp.
IROQUOIS, safety pins, Risdon Mfg. Co.
IROQUOIS, soap, Lewis National Corp.
IROX, iron-oxide-zinc chromate paint, Subox, Inc.
ISOCOLOR, powdered bleach, Carman & Co., Inc.
ISOGRAPH, stencil ink, Carman & Co., Inc.
ISOMODE, vibration absorber pads, press shock absorber units, M. B. Mfg. Co., Inc.
ISOTABS, tablet-form laundry blue, Carman & Co., Inc.
IVORY, soaps, chips, powder, Procter & Gamble Distributing Co.

J

J.F.S., variable speed reducers, Stephens-Adamson Mfg. Co.
J-M, packings, gaskets, Johns-Manville
J-P-S, drycleaning soap, R. R. Street & Co., Inc.
JANET, steam necktie presses, glove forms, Shedlov-Heinz Mfg. Co.
JAY BEE, super-duty firebrick, Mexico Refractories Co.
JAY-DEE, fur stretcher, fur and leather softener, mothproofing liquid, Jay-Dee, Inc., Mfg. Chemicals
JEFFERSON ISLAND, salt, Jefferson Island Salt Co., Inc.
JEFFERSON THOROBRED, wood and metal laundry and drycleaning washers, Laundry Machinery Div., Jefferson Wood Working Co.
JETVEYOR, steam jet ash conveyor, Brady Conveyors Corp.
JIFFY, blanket washer, Abe Cohen & Son
JIFFY, cuff and pocket brusher, bagging devices, bag racks, Medalie Mfg. Co.
JIFFY, puff irons, Columbia Laundry Machinery Co.
JIFFY, sock turner, Time Savers, Inc.
JIFFY SORTERS, sorting hooks with clip attached, Frank R. Smith, Co.
JIFFY-STICK, ink remover, National Cleaners Chemical Mfg. Co.
JOHNSON, flexible metal hose, Johnson Metal Hose, Inc.
JOHNSON, ironer oil, liquid stripper, Johnson Chemical Industries, Inc.
JOHNSON, rotary pressure joints, steam water heater, compressed-air separators, compressed-air aftercoolers, high-temperature boiler feed system, solenoid valves, automatic boiler water controls, Johnson Corp.
JOHNSTON, steam boilers, Johnston Bros., Inc.
JOINT-SEAL, anti-seize, joint seal and clean-out plug compound, Armite Laboratories
JOMAC, scorch-resistant fabric, C. Walker Jones Co.
JULIAN-KAY, collars, cuffs, neckband replacement, Julian-Kay Co.
JUMBO, metallic wool padding, International Steel Wool Corp.
JUMBO, net pins, Hison Mfg. Co.
JUNIOR, extractor, Fletcher Works, Inc.
JUNIOR CASCADE, laundry washer, American Laundry Machinery Co.
JUNIOR CHALLENGER, washer, Miller Laundry Machinery Co.
JUNIOR KING, net pins, Keyes-Davis Co.

K

K & B, barrels, bins, boxes, buckets, cabinets, chutes, cylinders, guards, stocks, tanks and ventilating systems, Kirk & Blum Mfg. Co.
K.B., soap powder, soap, Kliegman Bros., Inc.
K-D, nets, marking pins, Keyes-Davis Co.
KMS, mothproofing agent, Kinford Co.
K.O.P., coco-potash soap, Armour & Co.
K & T, valves, Klipfel Mfg. Co.
K-V, heavy fluid lubricant, Keystone Lubricating Co.
KALITE, calcium carbonate, Diamond Alkali Co.
KAME-N-KLEEN, soap powder, Kamen Soap Products Co., Inc.
KAMENOL D, synthetic detergent, Kamen Soap Products Co., Inc.
KAMENOL M, powdered laundry soap, Kamen Soap Products Co., Inc.
KAMENOL 92, soap flakes, Kamen Soap Products Co., Inc.
KAMENOL 60, soap beads, Kamen Soap Products Co., Inc.
KAMEX R, vegetable powdered low-titer soap, Kamen Soap Products Co., Inc.
KANE, gas-fired steam boilers, Mears-Kane-Ofeldt, Inc.
KANTARK, non-renewable fuses, Trico Fuse Mfg. Co.
KANT FALL, spur rolls to attach to rug beater, Moore's Time Saving Equipment Co.
KARAGAMI, powdered wax, refined wax, Concord Chemical Co.
KARGO-KING, aluminum-alloy van panel truck bodies, J. B. E. Olson Corp.
KARPET-KARE, carpet cleaner, Bigelow-Sanford Carpet Co.
KARRICK, laundry detergents, Karrick Co.
KOTOLIGHT, generators, light plants, Kato Engineering Co.
KATH FURS, fur repair, remodeling, purchasing service, David G. Kaplan's Drycleaner's Service
KAY, concentrated mothproofers, Kinford Co.
KAY-BEE, cover cloth, Kliegman Bros., Inc.
K-BI, break alkali, Laundry Chemicals Co.
K-BRITE, drycleaning soap, H. Krevit & Co., Inc.
KECKLEY, steam and liquid control equipment, O. C. Keckley Co.
KEEDOL, drycleaning filter soap with antiseptic and mothproofing, A. F. Wolke Co.
KEELER CP, boilers, E. Keeler Co.
KEEN AIR DISHNER, odor absorbent, diaper can deodorant, fumigant, Keystone Chemical Co.
KEE-STAR, corn starch, Kever Starch Co.

KEEVER, rug and carpet size, Kever Starch Co.
KEEVER CLEANER, cleaner for metal sleeve form and press, Kever Starch Co.
KEKO, moth-repellent garment storage bags, Kennedy Car Liner & Bag Co., Inc.
KELCO, cutting oil, Keystone Lubricating Co.
KELITE, laundry and boiler compounds, Kelite Products, Inc.
KELLEY, heat reclaimers, hot-water heaters, storage heaters, Patterson-Kelley Co., Inc.
KELLOGG-AMERICAN, air compressors, paint spray equipment, American Brake Shoe Co., Kellogg Div.
KELMAKER, pressure filters, vacuum traps, sight-glass assemblies, Kelmaker Mfg. Co.
KEM-BLU, liquid blue, Kem Laboratories
KEMINATE, synthetic detergent, penetrant, Kem Laboratories
KEMITE, sour, Kem Laboratories
KEMLEK, drycleaning detergent, Kemlek Corp., Div. Tobin-Halpert, Inc.
KEMO, alkali compounds, Kem Laboratories
KEM PRO, cover cloths, Whitehouse Nylon Products
KEMWASH, laundry liquid detergent, Kemlek Corp., Div. Tobin-Halpert, Inc.
KEN DIZ, synthetic drycleaning machine, John W. Young Co.
KENITE, diatomaceous earth filter powder, Frankenhoff Corp.
KENNEDY, paper bags, Kennedy Car Liner & Bag Co., Inc.
KENNEY, water softeners, filters, zeolite, Kenney Softener & Filter Co.
KENOC, powder synthetic wetcleaning detergent and water softener, Keystone Chemical Co.
KENTUCKY, trucks, dollies, boxes, Kentucky Box & Truck Co.
KEWANE, heating boilers, power boilers, storage water heaters, steel tanks, water heating garbage burners, Kewanee Boiler Corp.
KEY KLEEN, liquid wetcleaning detergent and oil soap, Keystone Chemical Co.
KEY-LOK, brake blocks, Raybestos-Manhattan, Inc.
KEYLUBRIC, air tool lubricant, Keystone Lubricating Co.
KEYPROOF, combination flameproofing and mothproofing agent, Keystone Chemical Co.
KEYSO, drycleaning soap, G & G Chemical Co.
KEYSPRAY, mothproofing agent and insecticide, Keystone Chemical Co.
KEYSTONE, alkalis, Swift & Co.
KEYSTONE, extractors, Keystone Laundry Machinery Co.
KEYSTONE, hat sizing, Keystone Aniline & Chemical Co., Inc.
KEYSTONE, leather soap and liquid glove soap, nail polish remover, white kid glove bleach, Keystone Aniline & Chemical Co., Inc.
KEYSTONE, steam generator, Erie City Iron Works
KEYSTONE, washable service apparel, Keystone Coat & Apron Mfg. Corp.
KEYSTONE, wax spot remover, Keystone Lubricating Co.
KEYSTONE DRI-KLEEN, spot remover, Keystone Chemical Co.
KEY-TAG, automatic mechanical identification system, Key-Tag Checking System Co.
KEY-TEX, filter soap, G & G Chemical Co.
KEYTEX, CONC, drycleaning soap, Keystone Aniline & Chemical Co., Inc.
KEYTHOL, deodorizing machine and scent blocks, Keystone Scent Conditioner Corp.
K-353, low-temperature soap powder, Laundry Chemicals Co.
K411, boiler stew, to remove scale deposit, National Chemical Sales Co., Laboratory, Inc.
KIDDE, fire extinguishers, Walter Kidde & Co., Inc.
KIDDYKOLOR, garment bags, Kennedy Car Liner & Bag Co., Inc.
KILLARNEY, laundry blue, Patek & Co.
KILFYR, automatic fire extinguisher, General Machine Supply Co.
KIL-ODE, deodorant, Warco Laboratories
KING-CLIP, gate valve, Lunkenheimer Co.
KIRK'S, spray guns, formers, finishers, Kirk's Leather Cleaners
KISCO, boiler room equipment, Kisco Boiler & Engineering Co.
"KITAGUNI", Japan wax, Strohmeyer & Arpe Co.
KLAMP-ON, pin sets, Moore's Time-Saving Equipment, Inc.
KLEANWELL, oil soap, Minnesota Chemical Co.
KLEAREX, solvent, lime soap, Kem Laboratories
KLEEN-EM, slightly alkaline soap containing powder and optical bleach detergent, Bigelow Chemical Products, Corp.
KLEENAP, rug detergent, H. Kohnstamm & Co., Inc.
KLEENFLO, activated sweetener, L. A. Salomon & Bro.
KLEENHAMPER, portable laundry and drycleaning drop box, Kleenhamper Inc.
KLEEN PAK, drycleaners' bags, Diem & Wing Paper Co.
KLEEN-RITE, coconut-oil soap, National Cleaners Chemical Mfg. Co.
KLEEN SHEEN, paste rug soap, Adco, Inc.
KLEEN SUDS, soap, Lewis National Corp.
KLEERITE, indelible inks, American Writing Ink Co., Inc.
KLEERVU, safety eye guard, gauge-glass protector, Wright-Austin Co.
KLENEASE, liquid wetcleaning soap, Caled Products Co., Inc.

KLERA CID, laundry sour, Wyandotte Chemicals Corp.
KLEX, pumice soap, Colgate-Palmolive-Peet Co.
KLEGEBILT, alkali, break powder, Kliegman Bros., Inc.
KLIEGSPUN, nets, cover cloth, Kliegman Bros., Inc.
KLIEGWEAVE, nets, Kliegman Bros., Inc.
KLIPOK, clamps for fuse clips, test clamps, Trico Fuse Mfg. Co.
KLIP-ZIT, drier clips, Time Savers, Inc.
K-LIQUID SOAP, liquid soap, Laundry Chemicals Co.
KLIX, paint remover, Nu-Pro Mfg. Co.
KLORCENT, synthetic soap, G & G Chemical Co.
KLOR-LENE, spotting solution with chloroform action, Davies-Young Soap Co.
KLORO, liquid detergent for use with synthetic solvent units, Adco, Inc.
K-MASTER, steam traps, air traps, continuous boiler blow-down valves, Kaye & MacDonald Inc.
K-MASTER KLEEN AIR, filters, Kaye & MacDonald, Inc.
K-MONEL, heat-treating alloy, International Nickel Co., Inc.
KM-129, odor absorber, deodorant, disinfectant, fumigant, synthetic detergent, chemical water conditioner, Keystone Chemical Co.
KNIGHT-WARE, acid-proof chemical stoneware, Maurice A. Knight
KNITTED PADDING, press pads, Knitted Padding Co.
KNOTLOCK, laundry nets, New York Net Co.
KOKO, liquid wetcleaning soap, Adco, Inc.
KOKOWET, wetcleaning soap, Stadham Co., Inc.
KOLD, soap, Minnesota Chemical Co.
KOLITE, cold-water built soap, John T. Stanley Co., Inc.
KOL MASTER, stokers, Kol-Master Corp.
KOLORTEX, industrial soap, Allen B. Wrisley Co.
KOLURGO, hot-water liquid color stripper, Washing National Sands, Inc.
KOMO, blues, ironer oil, Minnesota Chemical Co.
KOMONOL, organic detergent, Minnesota Chemical Co.
K-121-B, break powder, Laundry Chemicals Co.
K-122, soap builder, Laundry Chemicals Co.
KON-NEC-TOR, mercury switch, General Electric Co.
KOOL-WAIV, axial fans, International Engineering, Inc.
KORO, filter detergent, Nu-Pro Mfg. Co.
KOROLA, French-cuff fastener, Boston Clip & Tag Co.
KOSMETEX, spotter for cosmetic stains and liquors, Patek & Co.
KOVERLOX, file fasteners, Speed Products Co., Inc.
KOYLON, foam pressing pads, U. S. Rubber Co., Koylon Div.
KRAN-MER, dyeing, Kran-Mer Corp.
KREX, hand cream for relieving burns, cuts, etc., Caled Products Co., Inc.
KROMOAK, leather and waterproof leather belting, Charlotte Leather Belting Co.
KROMOTAN, leather and waterproof leather belting, Charlotte Leather Belting Co.
K-SOLVENT, detergent for industrial wetwash, Laundry Chemicals Co.
K-333, built soap powder, Laundry Chemicals Co.
KUFTACKER, stapler for trouser cuffs, Bostitch, Inc.
KUNKLE, safety and relief valves, Kunkle Valve Co.
KURB-SIDE, motor truck bodies, J. B. E. Olson Corp.
KWICK, fluorescent bleach, Eaton Chemical & Dye-Stuff Co.
KWIK CHANGE, cover and iron springs, Time Savers, Inc.
KWIK KOVER, hanger shields, Kwik Kover Sales Co.
KWIK ON, rug stretching bars, Moore's Time-Saving Equipment Co.
KWIK-SET, bag and net holders, Time Savers, Inc.
KWIK SUDS, cold water laundry soap, Kem Laboratories
KWIK TAG, marking tags, Kwik Kover Sales Co.
KWIK SET, washing-machine timer, H. C. Thompson Clock Co.
KWK VOLCLAY, bentonite clay, American Cold Co.

L

L. M. C., pumps, Lubbock Machine Co., Inc.
L-N, sour, tags, Lewis National Corp.
L.S.R., lipstick remover, Murphy Sales Co.
L.S.R., lipstick remover, West Side Corp.
LACLEDE, grates, stokers, Laclede Stoker Co.
LACQUEBROL, spotting agent, Nu-Pro Mfg. Co.
LA FRANCE, fire extinguishers, American-La France-Foamite Corp.
LAIDLAW, hangers, W. A. Laidlaw Wire Co.
LA-LOX, collar supports, Time Savers, Inc.
LAMTEX, floor mats, press pads, Burgess-Berliner Associates

LAM-TEX, sponge press pads, rubber floor mats, Pittsburgh Tag Co.
LANATEX, controlled alkaline detergent for fugitives, Carman & Co., Inc.
LANATEX C, alkaline detergent for carpets and rugs, Carman & Co., Inc.
LANE, baskets, trucks, hampers, W. T. Lane & Bros., Inc.
LANI-TEX, press pads, floor mats, Pittsburgh Tag Co.
LANTEX, garment finishing agent, drycleaning, Kasco Chemical Co.
LAPELLETES, lapel protectors, M. H. Gronauer Co.
LARTON, assembly hooks, sorters, Larton Products Co., Inc.
LASCO, liquid coconut oil, soap builder, Los Angeles Soap Co.
LATCO, boilers, P. M. Lattner Mfg. Co.
LATEX-O-CRETE, chemical resistant, United Laboratories, Inc.
LATHERINE, rug shampoo, Continental Car-Na-Var Corp.
LATTNER, boiler feed pumps and return systems, P. M. Lattner Mfg. Co.
LAUNDERITE, starch, Clinton Foods
LAUNDERLOG, recording washwheel thermometer, water level recorder, Foxboro Co.
LAUNDER-EEZ, synthetic detergent, Thompson Chemical Co.
LAUNDRO-PAD, pre-cut pad for laundry presses, Arrow Mfg. Co.
LAUNDRY COMPOUND, soap builder, Solvay Sales Div., Allied Chemical & Dye Corp.
LAUNDRY SODA, special cleaner, Solvay Process Div., Allied Chemical & Dye Corp.
LAUNDRY SOUR, acid material for neutralizing, Turco Products, Inc.
LAUNSO, medium pH built soap, E. F. Drew & Co., Inc.
LAUREL, rubber markers, Laurel Co.
LAVEKOL, spot washing, General Dyestuff Corp.
LAVEL APPARATUS, process for bleach, Wallace & Tiernan, Products, Inc.
LAVOX, machinery enamel, Pittsburgh Plate Glass Co., Paint Div.
LAWSON, pulleys, hand trucks, wheels, casters, Menasha Wood Split Pulley Co.
LAYCO, garment hanger, Star Service Hanger Div., L. A. Young Spring & Wire Corp.
LAYNE, vertical turbine pumps, water treatment and conditioning equipment, water well supplies, Layne & Bowler, Inc.
LAYTITE, floor coating, Steelcote Mfg. Co.
LE ANN, fur repair and repodelling services, Le Ann Fine Furs
LEATHERFAST, suede leather dye, Keystone Aniline & Chemical Co., Inc.
LEATHER-LIFE, leather dressing, Nycco Products Co., Inc.
LEATHER-LUSTRE, smooth-leather colors, Keystone Aniline & Chemical Co., Inc.
LEATHER SOAP, leather cleaning and glove soap, Smix Products Co.
LECTRICK-ICE, water cooler, Uniflow Mfg. Co.
ELECTROLIER, fans, Sun Fluorescent Electric Co.
LED-PLATE, thread and gasket paste, Armite Laboratories
LEEBAW, counter conveyor, industrial trucks, Leebaw Mfg. Co.
LEEF, bleach forms, Leaf Bros., Inc.
LEFFEL, automatic underfeed stokers, steam boilers, James Leffel & Co.
LENACO, baskets, bleaches, blues, ink, ironer oil, pads, flannels, press covers, cement, Lewis National Corp.
LENACO NO-SAG, tumbler pads, Lewis National Corp.
LENASOL, disinfectant, Lewis National Corp.
LENDLE, overcoat shaper, U. S. Hoffman Machinery Corp.
LEONARD, manually operated drycleaning press, Leonard Pressing Machine Co.
LESLIE, controls and regulators, pumps, valves, Leslie Co.
LESLIE-TYFON, whistles, horns, signals, Leslie Co.
LESO, leather soap, Nu-Pro Mfg. Co.
LESTOL, liquid synthetic detergent, Adell Chemical Co.
LETHALAIRE, aerosol insecticide, Virginia Smelting Co.
LETHOL MOTH FUMIGANT, insecticide, Mortemoth Chemical Laboratories
LEVELENE, textile dyeing assistants, American Aniline Products, Inc.
LEVELENE FGD, color-setting liquid, American Aniline Products, Inc.
LEVELOL, stripper, Eaton Chemical & Dyestuff Co.
LEVELOMETER, gauges, Liquidometer Corp.
LEVELON, blue, H. Kohnstamm & Co., Inc.
LEVELON, moisture leveler and neutral spotting base, National Cleaners Chemical Mfg. Co.
LEVER FORMULA 770, 777, 880, all purpose granules, mild flakes, heavy detergents, Lever Brothers, Co.
LEVER SOAP, high titer chips, granules, Lever Brothers, Co.
LEWIS, baskets, trucks, G. B. Lewis Co.
LEWIS, rug binding machines, Lewis Invisible Stitch Machine Co.
LEXARD, milled toilet soap, Swift & Co.
L-4008, laundry starch, Clinton Foods Inc.
LIBERTY, fiber tag material, marking tags, Liberty Marking Tag, Inc.
LIFE, sizings, Life Products Co.
LIFE FOR FABRICS, water repellent and fabric conditioner, Franklin Research Co.

LIFETIME MOTHPROOFING, moth repellent, Sibur Morthproof Co.
LIFE-TUBE, ball-bearing pillow blocks and range units, T. B. Wood's Sons Co.
LIFTVEYOR, inclined belt conveyor, Mechanical Handling Systems, Inc.
LIGHTER METHOD, laundry packages, Sutherland Paper Co.
LIGHTNING, drycleaning, fur and upholstery cleaning compounds, Mortemoth Chemical Laboratories
LIGHTNING, water-repellent dip tank, Hopkins Equipment Co.
LIME-SOLV, calcium solvent, H. Kohnstamm & Co., Inc.
LINCOLN, rug and carpet redyeing, Lincoln-Hudson Rug Dyers, Inc.
LINEX, synthetic wetcleaning soap, Allen & Vickers, Inc.
LINK-BELT, chains, conveyors, stokers, power transmission machinery, Link-Belt Co.
LINN, special bodies, delivery trucks, Linn Coach & Truck Div., Great American Industries, Inc.
LINOL, disinfectant, Lincoln Research, Inc.
LION-BILT, work uniforms, Lion Uniform Co.
LIP-I-CATER, lipstick and lacquer remover, W. F. Johnson Products Co.
LIPOFF, cleaning compounds, Mortemoth Chemical Laboratories
LIPSTICK-MUV, lipstick remover, Package Chemical Co., Inc.
LIQUA-BREAK, washroom detergent, Davies-Young Soap Co.
LIQUID BLUE, blue, Diamond Alkali Co.
LIQUID BLUE, H. Kohnstamm & Co., Inc.
LIQUID DICLENE, drycleaning detergent, Armour & Co.
LIQUID MORTEMOTH, insecticide, Mortemoth Chemical Laboratories
LIQUIDOMETER, gauges, Liquidometer Corp.
LIQVIVATOR, condensate return system, Morehead Mfg. Co.
LIQUOR CHLOROXYLENOLIS, disinfectant, Lincoln Research, Inc.
LISTMAKER, listing machines, National Marking Machine Co.
LITTLE CHIEF, pumps, Fairbanks Morse & Co.
LITTLE GIANT, cuff and pocket cleaner, Little Giant Specialties
LITTLE GIANT, water spray gun, Stebbins Mfg. & Supply Co.
LITTLE SCOTCHMAN, Scotch marine boilers, U. S. Hoffman Machinery Corp.
LITTLE WARRIOR, metal washer, Illinois Laundry Machinery Mfg. Co.
LITTLE WONDER, electric whiskbrush, American Pressboard Co., Inc.
LIVE OAK, leather transmission belting, Eagle Belting & Leather Co.
LIXATE, rock-salt dissolver, International Salt Co., Inc.
L. N. 4, spotter and stripper, Lewis National Corp.
LOCK END, trouser guards, necktie forms, Paulin Products Co.
LOEBL, garment, rug dyeing, Loeb Dye Works, Inc.
LO-FRONT, washer, U. S. Hoffman Machinery Corp.
LOGIK, soap builder, Minnesota Chemical Co.
LO-HED, hoists, car pullers, American Engineering Co.
LOK-TITE, marking tags, Liberty Marking Tag Co., Inc.
LO-MAINTENANCE, electric motors, Allis-Chalmers Mfg. Co.
LONGBOY, laundry net, Carson Textile Co., Inc.
LONGCLIFF, ironer aprons, ironer ribbons, Tingle, Brown & Co.
LOOKOUT, boilers, Lookout Boiler & Mfg. Co.
LO-SET, high temperature mortar, Mexico Refractories Co.
LOSET, stokers, Canton Stoker Corp.
LOSTOKER, boiler stoker, Detroit Stoker Co.
LOT SYSTEM TAG-O-MATIC, marking machine for lot system identification, Textile Marking Machine Co., Inc.
LOUDEN, conveyors, cranes, hoists, Loudon Machinery Co.
LOW FRONT, washers, Zephyr Laundry Machinery Co.
LOX-IN, collar supports, Time Savers, Inc.
LOYAL, automatic starcher, Armstrong Machinery Co.
LOYAL, pressing machines, vacuum systems, starching machines, Loyal Textile Machinery Co., Inc.
L-S, leather, cleaning soap-suede, Caled Products Co., Inc.
LT 60, built red oil soap, Allen B. Wrisley Co.
LUBEFLEX, starch aid lubricant, Hood Chemical Co., Inc., Crescent Div.
LUB-N-WAX, wax, Spare Co.
LUBRI-KLEEN, lubricating agent for ironers and presses, Paper Chemicals Co.
LUBRITEX NC, drycleaning soap, Allen & Vickers, Inc.
LUBRITEX S, drycleaning soap, Allen & Vickers, Inc.
LUCIDE A-20, waterproof insecticide, Pest Control Equipment Co.
LUNKENHEIMER, valves, boiler mounts, lubricators, grease cups, gauges, etc., Lunkenheimer Co.
LUPOGUM, size and finishing, Jacques Wolf & Co.

LUSTERETTE, portable fur ironing and glazing machine, Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
LUSTER-ON, fur glaze, Nycco Products Co.
LUSTERSUDS, soap, H. Kohnstamm & Co., Inc.
LUSTERWAY, drycleaning system for franchise basis, McCleary Associates, Inc., and/or Root & Co.
LUSTERWAY COMPOUND, fur cleaning sawdust, Root & Co.
LUSTERWAY FORMULA, fur conditioner and glaze, Root & Co.
LUSTERWAY SOLVENT, fur cleaning solvent, Root & Co.
LUSTRAL, liquid synthetic cleaner, National Cleaners Chemical Mfg. Co.
LUSTRE SEAL, floor sealing and repair material, Keystone Chemical Co.
LUSTRO-KLEEN, liquid wetcleaning soap, Slater-Robbins Co., Inc.
LUXOL, starch lubricant, E. F. Drew & Co., Inc.
LUXOR PLASTIC, transparent garment bags, Rassenfoss Bag Co., Inc.

Mc

McDONNELL, boiler water level control, McDonnell & Miller, Inc.
McDONNELL & MILLER, water controls, McDonnell & Miller, Inc.
McELMOYL, canvas baskets, canvas shipping hampers, canvas basket trucks, M. J. McElmoyl Co.
McKEE-ECLIPSE, blowers, boiler feed and return systems, gas burners, controls, Eclipse Fuel Engineering Co.

M

MIF, pipe fittings, Malleable Iron Fittings Co.
M-K-O, automatic boiler feed systems, Mears-Kane-Oeteldt, Inc.
M. L. B., waterproof cemented leather belting and dressing, Milwaukee Leather Belting Co.
M&M, boilers, level controls, McDonnell & Miller, Inc.
M & M, break booster, M & M Chemical Co.
M. S. A., first-aid equipment, safety equipment, salt tablets and dispensers, Mine Safety Appliances Co.
MACBETH DAYLIGHTS, color matching and daylight lamps, Macbeth Corp.
MACBETH pH METERS, control equipment, indicators, test kits, Macbeth Corp.
MACHETA AIRFOIL, industrial ventilating fans, Aerovent Fan Co.
MACKS AUTOMATIC SORTER, laundry sorting machine, Triple "M" Inc.
MAFORCO, fur storage equipment, racks, Market Forge Co.
MAGIC, double collar support, J. W. Steele & Co.
MAGIC, rug measuring table, Moore's Time-Saving Equipment Co.
MAGIC CORNER, boxes, Sutherland Paper Co.
MAGIC INKSTICK, ink eraser, Nu-Pro Mfg. Co.
MAGIC-SEAL, shirt bands, Century Paper Products
MAGLA SILVER, cover cloth, Magla Products
MAGNESOL, adsorptive filter powder, Westvaco Chemical Div., Food Machinery & Chemical Corp.
MAGNETROL, liquid level controllers, Fred H. Schaub Engineering Co., Inc.
MAGNETTE, circuit breakers, Heinemann Electric Co.
MAGNISSET, a type of free vane air-operated controller, Bristol Co.
MAGNUS, cleaning materials, Magnus Chemical Co., Inc.
MAJESTIC, drycleaning units, Indiana Mfg. Co., Inc.
MAJESTIC, steel steam boilers, Ames Iron Works
MAJOR, lubricators, Lunkenheimer Co.
MAMMOTH CASCADE, laundry washer, American Laundry Machinery Co.
MANHATTAN, belt hose, tank lining, Raybestos-Manhattan, Inc.
MANISOLV, prespotter, Merson Products Co.
MANITOWOC, drycleaning tumbler and unit, continuous still, Manitowoc Engineering Corp.
MARATHON, ironer tape and feed ribbons, asbestos ironer covers and pads, black nylon cloth, Benwall Mfg. Co., Inc.
MARCLENE, charge detergent, penetrant wet pre-spotter, Marclene Chemical Products Corp.
MARCO, hot-water heaters, storage heaters, feed-water heaters, oil separators, Marshall Heater Co.
MARCO, racks, lighting fixtures, Cleaners Sales & Equipment Corp.
MARINE, grease cups, Lunkenheimer Co.
MARIONETTE, shirt bands, Marion Mfg. Co.

- MARKOGRAPH**, marking machines, marking ink, George Steigler Co.
- MARK-O-INK**, indelible marking ink, Mark-O Corp.
- MARK-O-PEN**, indelible marking pen, Mark-O Corp.
- MARK RITE**, tags, Lewis National Corp.
- MARLEX**, corrosion inhibitor, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- MAR-MAK**, rug drycleaning machine, Mar-Mak Machinery Mfg. Co.
- MARMON-HERRINGTON**, all wheel drive truck, Marmon-Herrington Co., Inc.
- MAROSAL**, rinsing aid, Minnesota Chemical Co., Inc.
- MARPEL**, water repellent, Marlene Chemical Products Corp.
- MARSH**, valves, Jas. P. Marsh Corp.
- MARSHALL'S**, spotters, Marshall Co.
- MARTEX**, non-slip composition flooring, treads, American Abrasive Metals Co.
- MARTINIZING**, drycleaning system, Martin Equipment Co., Div. American Laundry Machinery Co.
- MARTIN KOLORCARDS**, direct-mail-customer control system, Reba Martin, Inc.
- MARVA**, scrubbing soap, Marvella Corp.
- MARVEL**, cotton padding, canvas cement, Pittsburgh Waterproof Co.
- MARVEL**, ink remover, Keystone Aniline & Chemical Co., Inc.
- MARVEL**, laundry, drycleaning equipment, Marvel Mfg. Co.
- MARVEL**, marking machine, foot-powered staplers, indelible marking ink, Marvel Marking Machine Co.
- MARVELCLEEN**, synthetic drycleaning soap, Trico Chemical Div., Tri-State Equipment Co.
- MARVELLA**, rubber enamel, rubber glass and rubber enamel floor resurfacing materials; rubber glass and rubber paint, rug shampoo, wax and oil remover, upholstery shampoo, Marvella Corp.
- MARVELO**, built soap powder, West Side Corp.
- MARVESO**, drycleaning soap, Nu-Pro Mfg. Co.
- MASONFILLAN**, steam plant equipment, Mason-Neilan Regulator Co.
- MASS PRODUCTION CURTAIN DRYER**, 3-way curtain drier, National Dryer Mfg. Co.
- MASTER**, drying tumblers, Hammond Laundry-Cleaning Machinery Co.
- MASTER**, glove cleaning soap, Keystone Aniline & Chemical Co., Inc.
- MASTER**, lint brush, Master Products Co.
- MASTER**, presses, laundry and drycleaning equipment, Master Machinery Co.
- MASTER**, sleeve, folder, Forse Equipment Corp.
- MASTER**, soaps, Lasco Supply Co.
- MASTER**, valves, W. M. Chace Co.
- MASTER-BILT**, washers, B & G Machinery Co., Inc.
- MASTER BRAND**, hatters' equipment, supplies, Maxant Button & Supply Co.
- MASTER CASCADE**, laundry washer, American Laundry Machinery Co.
- MASTER CHALLENGER**, washer, Miller Laundry Machinery Co.
- MASTER CONTROL UNIT**, steam system, Velocity Steam Production Engineering, Inc.
- MASTER DRY CLEANSER**, paste drycleaning soap, Keystone Aniline & Chemical Co., Inc.
- MASTER KING**, net pins, Keyes-Davis Co.
- MASTER PLATE**, floor resurfacing concrete, Master Builders Co.
- MASTER QUICK**, floor patching concrete, Master Builders Co.
- MASTER SEAL**, self-seal shirt bands, Package Masters, Inc.
- MASTER SELF-SEAL**, shirt bands for advertising messages, Package Masters, Inc.
- MATCHLESS**, flatwork ironers, Prosperity Co., Inc.
- MATCHLESS**, monorail trolley, Chisholm-Moore Hoist Corp.
- MATEER**, extractors, Western Laundry Machinery Co.
- MAXANT MASTER**, pleating machine, Maxant Button & Supply Co.
- MAXINE**, milled toilet soap, Swift & Co.
- MECLASOL**, washroom detergent, Carlton Chemical Co., Inc.
- MECOLOID**, colloidal clay compound, H. Kohnstamm & Co., Inc.
- MEHL**, transparent bags, Mehl Mfg. Co.
- MEMO TAGS**, pre-printed instruction tag, Larton Products Co., Inc.
- MENDEX**, tabs and tapes for repairing, marking, Mendex Corp.
- MEND-MASTER**, machines for applying tapes or tabs, Mendex Corp.
- MENTOR BEADS**, synthetic detergent, Colgate-Palmolive-Peet Co.
- MERASOL**, drycleaning soap, R. R. Street & Co., Inc.
- MERCO-BRITE**, fluorescent dye, Merchants Chemical Co.
- MERCURY**, petroleum cleaning systems, filters, tumblers, Mercury Cleaning Systems, Inc.
- MERCURY**, presses, Troy Laundry Machinery Div., American Machine & Metals, Inc.
- MERCURY**, soaps, detergents, Theobald Industries
- MERMAID**, break powder, Los Angeles Soap Co.
- MERSON**, soaps, strippers, Merson Products Co.
- MERTEX**, drycleaning soap, Merson Products Co.
- METALASTIC**, packings, Metalastic Mfg. Corp.
- METALATE**, laundry chemical, Diamond Alkali Co.
- METEOR**, electric hoist, Chisholm-Moore Hoist Corp.
- METLA-COTA**, boiler water treatment, State Mfg. Co., Inc.
- METRO**, delivery truck bodies for light, bulky loads, Metropolitan Body Co., Inc.
- METSO**, detergents, Philadelphia Quartz Co.
- METSO 88**, rug cleaner, Philadelphia Quartz Co.
- METSO 55**, silicate-type cleaner, Philadelphia Quartz Co.
- METSO GRANULAR**, sodium metasilicate, Philadelphia Quartz Co.
- METSO 99**, sodium sesquisilicate, Philadelphia Quartz Co.
- MEXICAST**, plastic refractory concrete, Mexico Refractories Co.
- MEX-LOX**, jointing material, Mexico Refractories Co.
- M-5**, insulating firebrick, Mexico Refractories Co.
- M-50, M500**, drycleaning washer, Western Laundry Machinery Co.
- MICRO-KLEAN**, filters, Cuno Engineering Corp.
- MICROMET**, rust and corrosion preventative, Calgon, Inc.
- MIDCO**, flameproofing agent, Merson Products Co.
- MIDGET**, continuous towel cabinet, Steiner Sales Co.
- MIDGET**, controls, Morehead Mfg. Co.
- MIDGET**, static eliminator for industrial machinery, Simco Co.
- MIDGET KING**, marking pins, Keyes-Davis Co.
- MIDGET-MATIC**, laundry washers, Hammond Laundry-Cleaning Machinery Co.
- MIDGET PERFECTION MARKER**, marking machine, Perfection Marking Machine Co.
- MIDOFORM**, all-around spotter, Merson Products Co.
- MIDWEST**, stainless steel washer, vacuum traps, drying cabinets, Midwest Laundry & Cleaning Machinery Co.
- MILCO**, colorback (for restoring color to faded fabrics), shampoos, A. O. Miller & Co.
- MILDEW-CHEK**, mildew preventative, Chek Products, Inc.
- MILDEX**, mildewicide, Patek & Co.
- MILDUSIZE**, drycleaning mildew preventative, Cidex Corp.
- MILLER**, laundry washers, Miller Laundry Machinery Co.
- MILLER**, lighting fixtures, Miller Co.
- MILICAL**, calcium carbonate, Diamond Alkali Co.
- MILLSPRAY**, insecticide, Keystone Chemical Co.
- MILNOR**, laundry, drycleaning extractors, washers, Pellerin Milnor Corp.
- MILQ**, drycleaning paste soap, R. R. Street & Co., Inc.
- MINCO**, soaps, Minnesota Chemical Co.
- MINIATURE SLEEVERS**, sleeve formers, Wichita Precision Tool Co., Inc.
- MINI-LINE**, pneumatic indicators and controls, Bailey Meter Co.
- MIN-IT-SOL**, drycleaning soap, Murphy Sales Co.
- MINUTE MAN**, extractor, presses, Troy Laundry Machinery Div., American Machine & Metals, Inc.
- MINUTE MAN, JR.**, tumblers, Troy Laundry Machinery Div., American Machine & Metals, Inc.
- MIRZA**, rug cleaning system and machine, rug duster, rug dryroom conveyor, rug drying unit, rug wringer, American Laundry Machinery Co.
- MISSION BELL**, toilet soap, Los Angeles Soap Co.
- MITCO**, drycleaning washer, tumblers, J. B. Mitchell Co.
- MIZON**, rug cleaning detergent, Fumol Corp.
- MKAYO**, boilers for oil firing, Mears-Kane-Olefield, Inc.
- MOBILE HAMPER**, clothes cart, R. B. Smith Co.
- MOBILMARK**, storage bin, marking hopper and marking table, G. H. Bishop Co.
- MOCO**, drycleaning soap, fabric deodorant, liquid wetcleaner, spotter, dye pads, Package Chemical Co., Inc.
- MODINE**, unit heaters, coolers, Modine Mfg. Co.
- MOELLER**, recorders, thermometers, Moeller Instrument Co.
- MOFLEX**, tire rebuilding and repair materials, Mohawk Rubber Co.
- MOGRIP**, tire recapping stock, tire rebuilding materials, Mohawk Rubber Co.
- MOGUM**, tire recapping stock, tire rebuilding materials, Mohawk Rubber Co.
- MOHAWK**, padding, Egan Cotton Mills
- MOHAWK**, power-driven scraper for removing soot from inside boiler tubes, Brunt Mfg. Co.
- MOHAWK**, tallow soap chips and powder, Swift & Co.
- MOHAWK**, tire recapping stock, tire repair materials, Mohawk Rubber Co.
- MOLAFORM**, stain remover, Package Chemical Co., Inc.
- MONAD G**, neutral synthetic detergent, Colgate-Palmolive-Peet Co.
- MONARCH**, synthetic solvent drycleaning machine, Dretex Corp.
- MONARCH**, washer, American Laundry Machinery Co.
- MONARCH**, wire staples, Vail Mfg. Co.
- MONEL**, alloy of nickel and copper, International Nickel Co.
- MONELLO**, Monel pads for overall presses, Resillo Co.
- MONEX**, extractor, American Laundry Machinery Co.
- MONITE**, insured mothproofing, Monite Co., Inc.
- MONOBLOC**, close-coupled centrifugal pumps, Worthington Pump & Machinery Corp.
- MONO-CHROME**, chrome base plastic refractory, Mexico Refractories Co.
- MONO-FABRIK**, plastic firebrick, Mexico Refractories Co.
- MONO-LINE**, plastic firebrick, Quigley Co., Inc.
- MONOPOLE OIL**, sulphonated oils, Jacques Wolf & Co.
- MONOWASH**, package laundry unit, U. S. Hoffman Machinery Corp.
- MONTPELLIER**, truck bodies for laundry and linen supply delivery, Montpelier Mfg. Co.
- MOORE**, autographic register, Moore Business Forms, Inc.
- MOORE**, trolley conveyor, Chisholm-Moore Hoist Corp.
- MOORES OCTOCLENE**, rug cleanser, Moore's Time Saving Equipment Co.
- MO-REX**, dry press firebrick, Mexico Refractories Co.
- MORHEAT**, boiler and steam generators, Morheat Sales Co.
- MORLEX**, corrosion inhibitor for boiler water and steam, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- MOROCCO**, rug sizings, National Starch Products, Inc.
- MORRO**, medium titer soap flakes, Swift & Co.
- MORSE**, drum plug wrench, drum dispensing racks, bottle tipplers, drum hand trucks, Morse Mfg. Co., Inc.
- MORTEMOTH**, triple-strength crystal and spray insecticide, Mortemoth Chemical Laboratories
- MOTH-ASEPTIC**, mothproofing germicide, Perma-Septic Corp.
- MOTH-CHEK**, mothproofing agent, Chek Products, Inc.
- MOTHPROOFITE**, insecticide, mothproofing concentrate, Mortemoth Chemical Laboratories
- MOTH-SAN**, mothproofing agent, Huntington Laboratories, Inc.
- MOTH SEAL**, storage bags, Lincoln Bag Co., Inc.
- MOTH SECTOR**, dual-action moth spray, Fumol Corp.
- MOTOPUMP**, water supply pump, Yeomans Bros. Co.
- MOTOR PUMP**, solvent and water pump, Ingersoll-Rand Co.
- M. P. 189**, wetting and dispersing agent, Lewis National Corp.
- MRS. STEWART'S**, liquid bluing, Luther Ford & Co.
- M-26, M-23, and M-20**, insulating firebrick, Mexico Refractories Co.
- MULSOLITE**, lubricant, spotter, penetrant, R. R. Street & Co., Inc.
- MULSOL-K**, overall cleaner, Laundry Chemicals Co.
- MULTIBRAID**, braided metallic filter cloth, Multi-Metal Wire Cloth Co., Inc.
- MULTI-CLEAN**, rug scrubbing equipment, rug and upholstery shampoo, Multi-Clean Products, Inc.
- MULTI-CUSHION**, felt padding, Pittsburgh Waterproofing Co.
- MULTIFLEX**, calcium carbonate, Diamond Alkali Co.
- MULTIGRAPH**, hand-operated duplicating machine, Addressograph-Multigraph Corp.
- MULTIGRIP**, floor plates, U. S. Steel Co.
- MULTILEAF**, filter leaves, Multi-Metal Wire Cloth Co., Inc.
- MULTITHERM**, air-conditioning units, Clavage Fan Company
- MULTI-V DRIVE**, V-belt drives and sheaves, Worthington Pump & Machinery Corp.
- MUND'S**, inclined water tube boiler, Mund Boilers, Inc.
- MURCO**, unit heaters, D. J. Murray Mfg. Co.
- MUROZA**, feather cleaning and sterilizing system, American Laundry Machinery Co.
- MURPHY'S**, drycleaning soaps, oil soaps, Phoenix Oil Co.
- MW 50**, asbestos furnace cement, Philip Carey Mfg. Co.
- MYRO**, water softeners, Hungerford & Terry, Inc.
- MYSTRON**, drycleaning unit, U. S. Hoffman Machinery Corp.

N

- N-C**, staples, stapling machines, Neva-Clog Products, Inc.
- N.C.S.**, drycleaning soap, National Cleaners Chemical Mfg. Co.
- N-L**, plastic impregnated tags, ink, Wm. J. Nicholson Laboratories
- N-M-D**, globe, angle, check and quick operating valves, Lunkenheimer Co.
- N. P.**, stain remover, Nu-Pro Mfg. Co.
- N-R-G**, enzymic digester, George E. Mead Co.
- NACCONOL**, synthetic organic detergent, National Aniline Division, Allied Chemical & Dye Corp.
- NAIROIL**, small oil burners, National Airoil Burner Co., Inc.
- NAJORT**, laundry washers, R. Ewing & Sons, Inc.
- NALCITE**, resinous, ion exchangers, National Aluminate Corp.

NALCO, heating units for driers, North American Electric Lamp Co.
NALCO, water-treatment chemicals, National Aluminate Corp.
NALOX, nail polish remover, Warco Laboratories
NAMCO, boiler compound, dry and wet water repellents, fabric finishing compounds, Namco Chemical Corp.
NAMICO, alkali compounds, laundry silk and woolen soap, National Milling & Chemical Co.
NAPOLENE PASTE FILTER SOAP, drycleaning soap, Keystone Aniline & Chemical Co., Inc.
NAPSEPTIC, sour, E. F. Drew & Co., Inc.
NAPSOAP 22, 60, laundry soaps, E. F. Drew & Co., Inc.
NAPSOID, alkali compound, special detergents, E. F. Drew & Co., Inc.
NAPSOLF, spotting agent, E. F. Drew & Co., Inc.
NAPSONE, complete laundering detergent, E. F. Drew & Co., Inc.
NAPSO, medium-titer powdered built soap, E. F. Drew & Co., Inc.
NAPSO 22, oil built soap, E. F. Drew & Co., Inc.
NAPSUDS, rug and carpet soap, E. F. Drew & Co., Inc.
NAPTEX, oil built soap, E. F. Drew & Co., Inc.
NAPTHOLE, alkali compound, special detergents, E. F. Drew & Co., Inc.
NAPTHOLE, ironer oil, E. F. Drew & Co., Inc.
NAPHTHOLE B, medium-high pH detergent, E. F. Drew & Co., Inc.
NAPHTHOLE, complete laundering detergent, E. F. Drew & Co., Inc.
NAPWAX, ironer wax, E. F. Drew & Co., Inc.
NASHUA, double-face flannel, Nashua Textile Co.
NASHUA, package sealing machine, Nashua Package Sealing Co.
NATCO, instantaneous indirect-fired water heaters, National Combustion Co.
NATIONAL, boiler seam protector, National Boiler Protector Co.
NATIONAL, charge test kits for strong soap, National Cleaners Chemical Mfg. Co.
NATIONAL, cash registers, accounting machines, National Cash Register Co.
NATIONAL, charge soap, for charge systems, National Cleaners Chemical Mfg. Co.
NATIONAL, driers, stretchers, drying cabinets, tumblers, National Dryer Mfg. Co.
NATIONAL, drysize, used with stoddard solvent & perchlorethylene, National Cleaners Chemical Mfg. Co.
NATIONAL, identification systems, labels, seals, price lists, tags, National Tag & Label Corp.
NATIONAL, marking equipment, marking ink, belt conveyors, National Marking Machine Co.
NATIONAL, soot remover and rust-preventative treatment, National Chemical Sales Co., Laboratory, Inc.
NATIONAL AIROIL, oil burners and gas burners, National Airoil Burner Co.
NATIONAL LANG, listing machines, National Marking Machine Co.
NATIONAL REWEAVING SERVICE, reweaving equipment, Wonder Weavers
NATIONAL FAYFER, sealing machine, Nashua Package Sealing Co., Inc.
NATIONAL TRUCK LEASING SYSTEM, truck leasing and rental services, National Truck Leasing System
NAT-MAR-CO, marking-machine supplies, National Marking Machine Co.
NEATS OIL, belt dressing, Webb Belting & Supply Co.
NEBULYTE, oil-gas burner, Anthony Co.
NECCHI, sewing machines, Necchi Sewing Machine Sales Corp.
NEET, printed crush-proof shirt packaging, Market Industries Co., Inc.
NEET, shirt package, Patek & Co.
NEM-A, shirt-folding machine, J. W. Steele & Co.
NEO-SHINE, wax, Huntington Laboratories, Inc.
NEOTONE, soaps, Diamond Alkali Co.
NEOTEX, specialty soap, Turco Products, Inc.
NEPTUNE, leather belt cement, Graton & Knight Co.
NE-TO, starch, A. E. Staley Mfg. Co.
NEUTRACIDE, sour, Lewis National Corp.
NEUTRA-LENE, deodorant neutralizer, Davies-Young Soap Co.
NEUTRA LUSTRE, for rug cleaners, Standard Chemical Works Co.
NEUTRASOL, synthetic detergent, Lewis National Corp.
NEUTRASUDS, flake or powder, high-titer tallow soap compound, E. F. Drew & Co., Inc.
NEUTRATIN, sour, Lewis National Corp.
NEUTRATINT, sour, Lewis National Corp.
NEUTRO, sour, Turco Products, Inc.
NEUTROGEN, sour, Lewis National Corp.
NEUTRONAP, sour, E. F. Drew & Co., Inc.
NEUTROPHOR, laundry neutralizer and whiten-er, Carlton Chemical Co., Inc.
NEUTROSOP, neutral laundry soap, Carlton Chemical Co., Inc.
NEUTROTONE, detergent, Endriss Chemicals, Inc.
NEVA-CLOG, stapling machines, wire staples, Neva-Clog Products, Inc.
NEVA-SLIP, pants clip, Commercial Tag Co.
NEVASTANE, lubricant, Keystone Lubricating Co.
NEVER-SLIP, collar protectors, Phoenix Products Co.
NEVERSLIP, tie hangers, Memphis Hanger Co. & Pittsburgh Hanger Co.

NEVERSTRETCH, feed ribbon, Southern Mills, Inc.
NEW DEPARTURE, ball, radial and thrust bearings, New Departure, Div. General Motors Corp.
NEWHOUSE, spotting guns, brushes, counter racks, sleeve formers, press pad, spotting noses, sleeve boards, wetcleaning aprons, Newhouse Co.
NEWMAN, watchmen's clocks, Detex Watch-clock Corp.
NEW-MATIC, presses, New York Pressing Machinery Corp.
NEW NO. 30 CLEANER, fur cleaner, Nycco Products Co.
NEW YORKER, drycleaning, laundry presses, New York Pressing Machinery Co.
NIACARA, chemical, oil and water meters, Buffalo Meter Co.
NIAGARA, filter screens, Niagara Filter Corp.
NICE, ball and thrust bearings, Nice Ball Bearing Co.
NICHOLSON, strainers, floats, traps, W. H. Nicholson & Co.
NILES, steel drums, Republic Steel Corp.
9000 SERIES, steel-framed two-wheel hand trucks, Fairbanks Co.
NI-ROD, electrode for machinable welds, International Nickel Co., Inc.
NISSEN, dye and bleach resistant color-marking and writing tube, John P. Nissen, Jr., Co.
NITROX, cleaner, rust inhibitor, Solvay Process Div., Allied Chemical & Dye Corp.
NO-BAK, ironer, Zephyr Laundry Machinery Co.
NO-CHLOR, spotting agent, Nu-Pro Mfg. Co.
NO-DARN, mending iron, No Darn Co.
NO-EFFORT, handkerchief and napkin press and handkerchief buffer, American Laundry Machinery Co.
NOEX, petroleum solvent drycleaning unit, drycleaning tumbler, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
NO-FLAM-O, flame-proofing for fabrics, Namco Chemical Corp.
NOKORODE, drycleaning, laundry press pads, Fullo Corp.
NO-KRUSH, garment carrier, U. S. Hoffman Machinery Corp.
NOLA TOILET SOAP, soaps, Iowa Soap Co.
NO LAX, spotting agent, Warco Laboratories
NO LINT, fabric preservatives and conditioner for linen supplies, Namco Chemical Corp.
NO-LINT-WORRIES, black bags, Zuckerberg Co.
NO-MAR TREATMENT, stain and water repellent, Paper Chemicals, Inc.
NO-MIX, bundle separators, Rosenthal Mfg. Co.
NO-MIX, identification system, Checking System Co.
NOMOLD, mold preventative, H. Kohnstamm & Co., Inc.
NON-CRUSH, shirt carriages, Time Savers, Inc.
NON-FER-AL, calcium carbonate, Diamond Alkali Co.
NON-IONIC, fabric conditioner, Namco Chemical Corp.
NON-SHIFT, wire garment hanger, Para-Lux Products Co.
NON-SKID, floor tiles, Virginia Greenstone Co., Inc.
NON X.L., water repellent, Boston Clip & Tag Co.
NORCO, meters, timers and control devices, Norman Control Co.
NORIT, activated carbon, L. A. Salomon & Bro.
NORTH STAR, fur cleaning compound, Walter Haertel Co.
NORUST, laundry sour, Washine National Sands, Inc.
NOR-WIL, press covers, asbestos covers, Norton & Williams, Inc.
NORWOOD CASCADE, washer, American Laundry Machinery Co.
NO-SNAG, laundry marking fountain pen, Cleaners Specialty Supplies Co.
NOSOK, non-enzymic digester, spot remover, George E. Mead Co.
NO STARCH, fabric conditioner and finishing aid for shirt laundries, Namco Chemical Corp.
NO-STRING MARK, tape device for flatwork presses, Rosenthal Mfg. Co.
NOTASTANE, lubricant, Keystone Lubricating Co.
NO-THREAD, compression fittings, Dresser Mfg. Div., Dresser Industries, Inc.
NOTRUX, mechanical loading and unloading extractor, American Laundry Machinery Co.
NO-VENT, boiler return system, David Stout & Sons
NUCHLOR, chloroform substitute, Nu-Pro Mfg. Co.
NU-CLEANING, synthetic drycleaning unit, U. S. Hoffman Machinery Corp.
NU-COAT, glove and leather finish, National Cleaners Chemical Mfg. Co.
NU-DI, leather dye, Nu-Pro Mfg. Co.
NU-FLO, laundry sour, Johnson Chemical Industries, Inc.
NU-FLUO, economy sour, Johnson Chemical Industries, Inc.
NU-FLUO EXTRA, sour for high bicarbonate water, Johnson Chemical Industries, Inc.
NU-LUS, leather dressing, neutral, Nu-Pro Mfg. Co.
NUMBERETTE, hand numbering machine, American Numbering Machine Co.
NUMBER 3, 11, 33, blues, Lewis National Corp.

NUMBER 4, blue, stripper, Lewis National Corp.
NUMBER 44, blue, Minnesota Chemical Co.
NUMBER 209, general formula, R. R. Street & Co., Inc.
NU-NAP, rug cleaner, Certified Chemical & Equipment Co.
NU-NAP PROCESS, shine removal service, Bestway Shine Removal Co., Inc.
NUODEX 87, mildew preventative, Nuodex Products Co., Inc.
NU-PAL, lint remover, Perma Products Co.
NU-PRO, ink and stain remover stick, Nu-Pro Mfg. Co.
NU-SHEEN, dyeing service, Omaha Dye Works
NUSHENE, special alkali compounds, Spare Co.
NU-SO, detergent, Nu-Pro Mfg. Co.
NU-SOL, soap builders, Thompson-Hayward Chemical Co.
NUSOLVO, spotting agent, Nu-Pro Mfg. Co.
NUSUEDE, suede finishes, Eaton Chemical & Dyestuff Co.
NU-TEX, drycleaning soap, Nu-Pro Mfg. Co.
NU-TEX-TIZE, drycleaning detergent, Nu-Life Mfg. Co.
NUTRA SUDS, neutral soap flakes, E. F. Drew & Co., Inc.
NUTROL, synthetic wetcleaner, Keystone Aniline & Chemical Co., Inc.
NUTRONAP, sour, E. F. Drew & Co., Inc.
NUTTING, floor trucks, casters, wheels, Nutting Truck & Caster Co.
NU-WAY, liquid filter soap, Davies-Young Soap Co.
NU-WOOD, insulation board, Wood Conversion Co.
NYCCO, moth preventatives, Nycco Products Co.
NYCCO, prepared fur dyes, Nycco Products Co.
NYLCOT, laundry net, Southern Mills, Inc.
NYL-EON, nylon covers and cloth, G. S. Robins & Co.
NYLO, filter and laundry bags, press covers and cloth, X. S. Smith, Inc.
NYLO-DUK, "Hydraxor" slings, F. H. Bonn Co.
NYLONETS, nylon laundry nets, X. S. Smith, Inc.
NYLOTEX, nylon press covers, X. S. Smith, Inc.
NYLSEW, nylon sewing thread, Hemmway & Bartlett Mfg. Co.
NYTEX, press pads and covers, R. Lally Co.
NY-WUL, press covers, Stadham Co., Inc.

O.I.C., all types valves, Ohio Injector Co.
O.T., laundry-drycleaning extractors, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
OAKITE, detergents, Oakite Products, Inc.
OAKITE COMPOUND NO. 32, scale and rust remover, Oakite Products, Inc.
OAKITE PENETRANT, detergent, Oakite Products, Inc.
OAKVILLE KWIK, wire staples, Oakville Div., Seville Mfg. Co.
OAKVILLE, "T" pins-brass, handi-pins-steel, Oakville Div., Seville Mfg. Co.
OASIS, drinking water cooler, Ebco Mfg. Co.
OBARK, leather belting, waterproof leather belting, Charlotte Leather Belting Co.
OBLITO, stain remover, H. Kohnstamm & Co., Inc.
O'BRIEN, water storage heaters, O'Brien Steam Specialty Co., Inc.
OCO, extractor baskets, Ohio Centrifugals Co.
OCTA-CLENE, rug cleanser, Moore's Time-Saving Equipment Co.
ODO-STICK, garment odor remover in stick form, Nu-Pro Mfg. Co.
OFELDT, boiler, Mears-Kane-Ofeldt, Inc.
OILGO, concentrated spotting agent, Carman & Co., Inc.
OILITE, self-lubricating bearings, machine parts, Ampex Div., Chrysler Corp.
OIL-KLEEN, oil remover, Kem Laboratories
OIL-MIST, automatic lubrication systems, Alemite Div., Stewart-Warner Corp.
OIL-RITE, oil cups, oilers, Oil-Rite Corp.
O.K. CORN STARCH, corn starch, Hubinger Co.
OLATE FLAKES, low-titer soap, Procter & Gamble Distributing Co.
OLIN, cellophane, Olin Cellophane Div., Ecusta Corp.
OLIVE C, soap, Stadham Co., Inc.
OLIVESCO, detergent, Cowles Chemical Co.
OLIVILO, toilet soaps, Allen B. Wisley Co.
OLSENMARK, marking inks, marking machinery, stamping presses, OlsenMark Corp.
OLSON, automatic laundry washers, Olson Industries, Inc.
OLSON, pressure filters, solvent stills, Olson Filtration Engineers, Inc.
OLSON KURB SIDE, aluminum package delivery body, J. B. E. Olson Corp.
OLYMPIC, extractor, Troy Laundry Machinery Div., American Machine & Metals, Inc.
OMNI-SOUR, laundry sour, Carlton Chemical Co., Inc.
140-F, safety petroleum drycleaning equipment, U. S. Hoffman Machinery Corp.
ONE-LAY, shirt finishing machine, J. W. Steele & Co.
ONE SHOT, writing ink remover, Eaton Chemical & Dyestuff Co.

ONE-SPOT, scale, Toledo Scale Co.
132, starch, A. E. Staley Mfg. Co.
\$1000.00 GUARANTEED, insecticides, B. Heller Co.

ON-THE-SPOT, synthetic drycleaning equipment, A. B. Temple Co.

OPALOID, buttons, Stadham Co., Inc.

OPENERS, laundry nets and fabrics, Davis Mills Inc.

OPEN-TOP, extractors, Prosperity Co., Inc.

OPERATIVE TI-ME-TER, time signals, visual, audible equipment control, Bidwell Mfrs.

OPTO-MATIC, constant lever oilers, Trico Fuse Mfg. Co.

ORIGA-FAB, sport shirt sizing, Harris Bros. Mfg. Co., Inc.

ORR, wool padding, Orr Felt & Blanket Co.

ORTHOLATE, laundry chemical, Diamond Alkali Co.

ORTHOSILICATE, detergent, Diamond Alkali Co.

ORVUS, wetcleaning detergent, Procter & Gamble Distributing Co.

ORVUS EXTRA GRANULES, synthetic detergent, Procter & Gamble Distributing Co.

ORVUS W. A. PASTE, wetcleaning detergent, Procter & Gamble Distributing Co.

OSOMOMETER, odor measurement device or apparatus, Odor Instruments Inc.

OSPECO, concentrated drycleaning soap, Oil States Petroleum Co., Inc.

O SPOTTER, stain remover, H. Kohnstamm & Co., Inc.

OUTSERTS, package insert, Allied Printing & Stationery Co., Inc.

OXALATE-A, sours, Standard Chemical Works Co.

OXYFUME, fumigant, Carbide & Carbon Chemical Corp., Unit of Union Carbide & Carbon Corp.

OZITE, insulation, laundry felt, American Hair & Felt Co.

OZONITE, built soap, Procter & Gamble Distributing Co.

P

PB, laundry marking tags, Boston Clip & Tag Co.

P.D.O., detergent, Nu-Pro Mfg. Co.

P.F.S., soap, Nu-Pro Mfg. Co.

P.I.U., variable speed changers, Link-Belt Co.

P.M., built soap, Thompson-Hayward Chemical Co.

P-R, colorless paint and varnish remover, Caled Products Co., Inc.

PAASCHIE, airbrushes, air painting equipment, Paasche Airbrush Co.

PACE, chlorinated solvent soap, Caled Products Co., Inc.

PACIFIC, borax and sodium sesquicarbonate, Columbia-Southern Chemical Corp.

PACIFIC, sour bluing, Beach Soap Co.

PACKLESS, flexible hose, couplings, Packless Metal Hose Inc.

PADRIGHT STEEL WOOL PADDING, press and ironer pads, padding, Padright Co.

PAINT-I-CATER, paint remover, W. F. Johnson Products Co.

PAINT-SOLV, paint remover, Huntington Laboratories, Inc.

PAISLEY, general line adhesives, Paisley Products, Inc.

PAK-ACE-KART, packaged work transporter, G. H. Bishop Co.

PAK-RITE, plastic garment bags, cedarized and plain combination bags for shirts, ties, gloves, sweaters, hats, etc., Pak-Rite Flexible Packaging Co.

PAK-TITE, compound, American District Steam Co., Inc.

PALM, palm oil soap, Swift & Co.

PALMETTO, cotton belting, Victor Balata & Textile Belting Co.

PALMOIL, soap, Rome Soap Mfg. Co.

PALM ROSE, soaps, Iowa Soap Co.

PAMCO, straight pins, Risdon Mfg. Co.

PANAREX, CO₂ recorder, Permutit Co.

PANTEX, drycleaning & laundry machinery, Pantex Mfg. Co.

PANTEX RHODES NATIONAL HATTER, hat blocking machine, Pantex Mfg. Co.

PANTS HORSE, trouser rack, R. B. Smith Co.

PAPER-STRUT, garment hanger, Star Service Hanger Div., L. A. Young Spring & Wire Corp.

PARACOIL, water heaters, Davis Engineering Corp.

PARAGENE, stripper, Eaton Chemical & Dye-stuff Co.

PARAGON, gas engine lubricators, Lunkenheimer Co.

PARALATE, alkali compound, Diamond Alkali Co.

PARAMOUNT, garment, trouser bags, hanger covers, Mutual Paper Box Co., Inc.

PARA-SEAL, hanger cover, Para-Lux Products Co.

PARAZOLE, spot remover, Eaton Chemical & Dye-stuff Co.

PARAZYME, digestive agent, enzyme spotting, Carman & Co., Inc.

PARIS, steam-air garment finisher, Garment Finishing Equipment Corp.

PARIS CONVERTIBLE, steam-air finishers, Garment Finishing Equipment Corp.

PARISIAN, sleeve former, U. S. Hoffman Machinery Corp.

PARIS MASTER FINISHER, steam-air garment finisher, Garment Finishing Equipment Corp.

PARKER, industrial boilers, Sid E. Parker Boiler Mfg. Co., Inc.

PARMELEE, wrench, Walworth Co.

PARNOL, detergent, Jacques Wolf & Co.

PAROL, special alkali compounds, Spare Co.

PARR, typewriter keys, rubber fingertips, Speed Products Co., Inc.

PARROT, binder clips, Speed Products Co., Inc.

PAR-X, stain remover, H. Kohnstamm & Co., Inc.

PATCH MASTER, repair cloth kits, R. D. Bus-sard & Son

PATEXPAC, printed garment bags, shirt envelopes, Patek & Co.

PATINEX, upholstery shampoo, cleaning compound, Mortemth Chemical Laboratories

PATINEX FURLIFE, fur shampoo, cleaning compound, Mortemth Chemical Laboratories

PATRICK, steam iron, Lawrence M. Stein Co.

PATROL, watchmen's clocks, Detex Watch-clock Corp.

PATTERSON-KELLEY, condensers, coolers, Patterson-Kelley Co., Inc.

PAWNEE, alkali soap builder, Wyandotte Chemicals Corp.

PAY-TEX, drycleaning soap for synthetic solvent systems, Patek & Co.

PAYTEXOL, oil, paint and grease remover, Patek & Co.

PG 450, neutral vegetable potash soap, E. F. Drew & Co., Inc.

PEABODY, gas, oil, coal burners, air heaters, Peabody Engineering Corp.

PEARL, built soap, flake and granulated, Colgate-Palmolive-Peet Co.

PEELCOTE, protective coating for metal parts, Watson Standard Co.

PEERLESS, laundry cover cloth, two ply cover duck, Thomaston Mills

PEERLESS, pumps, Peerless Pump Div., Food Machinery Corp.

PEERLESS, scales, Triner Scale & Mfg. Co.

PEERLESS BEACON, laundry marking tags, Boston Clip & Tag Co.

PEET, white laundry bar soap, Colgate-Palmolive-Peet Co.

PEE-VEE, lacquer remover, Riverside Mfg. Co.

PELATONE, fur cleaning and finishing compound, Carman & Co., Inc.

PELLERIN-MILNOR, laundry, drycleaning extractors, Pellerin Milnor Corp.

PENBRITE, alkaline detergent, Pennsylvania Salt Mfg. Co.

PENETEX, detergent, Stadham Co., Inc.

PENETRO, jet-action cleaning process, M. Blau Mfg. Co.

PENITE, marking ink, National Marking Machine Co.

PENETROIL, grease solvent, H. Kohnstamm & Co., Inc.

PENETRON, glue solvent, Better Packages, Inc.

PENETRONE, starch, H. Kohnstamm & Co., Inc.

PENLO, engine lubricator, Lunkenheimer Co.

PENNANT, drycleaning soap, Davies-Young Soap Co.

PENSUDS, wetcleaning detergent, Pennsylvania Salt Mfg. Co.

PENN DRAKE WASHOIL, oil treatment of linens, Pennsylvania Refining Co.

PENNSYLVANIA, tires, tubes, batteries, Pennsylvania Rubber Co.

PENOZONE, bleach, Pennsylvania Salt Mfg. Co.

PENSAL, alkaline detergent, Pennsylvania Salt Mfg. Co.

PENSAL-B, alkaline detergent, Pennsylvania Salt Mfg. Co.

PENSAL-M, alkaline detergent, Pennsylvania Salt Mfg. Co.

PENSAL-O, alkaline detergent, Pennsylvania Salt Mfg. Co.

PENSO, spotting agent, A. L. Wilson Chemical Co.

PEN-TRATE, spotting aid, Kennedy Products Co.

PEPO, prespotter, Stadham Co., Inc.

PEPSOL, drycleaning filter soap, A. F. Wolke Co.

PER, automatic drycleaning unit, Vic Cleaning Machine Co.

PERCHLORON, bleach, Pennsylvania Salt Mfg. Co.

PERCHLOR 600, drycleaning unit, Manitowoc Engineering Corp.

PERCLEN, drycleaning solvent, E. I. du Pont de Nemours & Co., Inc.

PERDOX, sodium perborate monohydrate, E. I. du Pont de Nemours & Co., Inc.

PERFECT, wheat starch, Keever Starch Co.

PERFECTA, steam and air spotting gun, Florian J. Hyman

PERFECTION, corn starch, Huron Milling Co.

PERFECTION, reducing valves, American District Steam Co., Inc.

PERFECTION, staple tags, Tagit Co.

PERFECTION, white neutral soap, Beach Soap Co.

PERFECTO, synthetic powder, National Cleaners Chemical Mfg. Co.

PERFECT WHEAT, laundry starch, Keever Starch Co.

PERFEX, controls and regulators, gauges, Perfex Corp.

PERFEX, press pads, Resillo Co.

PERK, synthetic drycleaning machine, Pantex Mfg. Co.

PERKLOR, synthetic solvents, Dow Chemical Co.

PERLITE, soap builder, H. Kohnstamm & Co., Inc.

PERMAFIBER, MARKING, fiber material for manufacturing laundry and drycleaning tags, Permafiber Corp.

PERM-A-KLEEN, perchlorethylene solvent, Dextrex Corp.

PERMA-MARKER, marking kit, Wm. J. Nicholson Laboratories

PERMA-NET-MARKERS, identification tags, Spare Co.

PERMA-NETS, rubber washing nets, Spare Co.

PERMANITE, acid- and alkali-resisting flooring, Maurice A. Knight

PERMAPROOF, flameproofing agent, B. F. Goodrich Co.

PERM-ASEPTIC, germicide, fungicide antiseptic, Perm-Aseptic Corp.

PERM-A-TEX, nylon press covers, X. S. Smith, Inc.

PERMATIZED, marking tags and tape, indelible marking ink, Wm. J. Nicholson Laboratories

PERMO, flameproofing, mothproofing agent, Permo Products Co.

PERMOBOND, rubber-lined tanks, pipe and pipe fittings, U. S. Rubber Co.

PERMOPAD, pads for handkerchief ironer, Resillo Co.

PERMOTEX, nylon press covers, X. S. Smith, Inc.

PERMUTIT, water softeners, filters, Permutit Co.

PERMUTIT Q, ion exchanger, water conditioner, Permutit Co.

PERONE, hydrogen peroxide, E. I. du Pont de Nemours & Co., Inc.

PERSONALIZED, garment bags, Rassenfoss Bag Co., Inc.

PERSPIR-X, perspiration remover, Paper Chemicals, Inc.

PETAL SMOOTH, starch, Clinton Foods Inc.

PETRO, oil burners, pumps and heaters, water heaters, Petroleum Heat & Power Co.

PETRYN, oil, paint and grease remover, Patek & Co.

PAFF, sewing machines, Paff Sewing Machine Sales Co.

PHENIX, cotton and nylon press covers, Phenix Supply Co.

PHILABELT PRESERVATIVE, belt dressing, Philadelphia Belting Co.

PHILCO, storage batteries, Philco Corp.

PHOENIX "SELF STICK", shirt bands, Phoenix Products Co.

PHOTOSWITCH, timers, pilot relays, controls, Photoswitch, Inc.

PHOTRONIC, photoelectric cell, Weston Electrical Instrument Corp.

pH-PLUS, briquet alkali for water softening, Mathieson Chemical Corp.

PIAZZA, conversion unit, synthetic drycleaning systems, Piazza Engineering Co.

PICK, water heaters, Pick Mfg. Co.

PICRIN, volatile spotting compound, R. B. Street & Co., Inc.

PIEDMONT, leather belting, waterproof leather belting, Charlotte Leather Belting Co.

PILOT, non-waterproof belt cement, Webb Belting & Supply Co.

PILOTRON, air-operated pilot, Bailey Meter Co.

PILTS, safety pins for shank buttons, Oakville Div., Scoville Mfg. Co.

PINIUB, wetcleaning soap, Package Chemical Co., Inc.

PIN-O-TEX, pine oil detergent, Slater-Robbins Co., Inc.

PIONEER, nylon laundry nets, Benwall Mfg. Co., Inc.

PIONEER, oil cups, Lunkenheimer Co.

PISTON-RING, expansion joint, American District Steam Co., Inc.

PITTCOLOR, calcium hypochlorite, Columbia-Southern Chemical Corp.

PITTSBURGH, paints, Pittsburgh Plate Glass Co., Paint Div.

PITTSBURGH, wire garment hangers, Pittsburgh Hanger Co.

PIXALL, lint remover, John E. Coolidge Co.

PLANER BRAND, leather belting, Philadelphia Belting Co.

PLASTIC INSULATION, insulating cement, Mexico Refractories Co.

PLASTIC QUIK-PACH, plastic firebrick, A. P. Green Fire Brick Co.

PLASTYLOX, nylon laundry nets, Carson Textile Co., Inc.

PLEASANT ODOR, fur cleaning fluid, Bernard Sirotta Co.

PLEX, digester, Patek & Co.

PLEZURE, a concentrated spotting soap, Caled Products Co., Inc.

PLIOFILM, bags for shirts, garments, blankets, etc., Clear-View Package Co.

FLIBRICO, jointless firebrick, incinerators, boiler setting, Fibrico Co.

PLUJET, smoke eliminators, Fibrico Co.

PLUS, spotter (wet or dry), Adco, Inc.

PNEU-MAT, woven rubber mat, A. N. Brabrook

POCKETEERS, pocket forms, Leaf Bros., Inc.

POENSCEN CAROUSEL, automatic 10-washer counterflow laundering unit, International Laundry Equipment Co.

POLAR BEAR, fur cleaner, Walter Haertel Co.

POLAR BEAR, fur cleaner, Nycco Products Co.

POLARIS, fur glazing cleaner, Walter Haertel Co.

POLARSUDZ, cold-water built soap, Beach Soap Co.

POLARTONE, laundry sour, G. S. Robbins & Co.

POLYMARK, marking machines, Pinnacle Products Corp.

POMONA, turbine pumps, Fairbanks Morse & Co.

PONCHO, wet water repellent, Patex & Co.

PONY, laundry presses, Prosperity Co., Inc.

POOR PETER PILLOW, complete pillow cleaning service, R. Lally Co.

POPKINS, store fixtures, Popkins Fixture Co.

PORTA-PAK, autographic register, Egry Register Co.

PORTO-FAB, prefabricated buildings, Porto-Fab Co., Inc.

POSTEMP, temperature control for digesters, Cleaners Specialties Supplies Co.

POSTAGE-METER, postage meter tape, Gummed Tape & Devices Co.

POW, drycleaning soap, Keystone Aniline & Chemical Co., Inc.

POWDER DISPENSER, filter powder dispenser, Powder Dispenser Co.

POWDERED HAWKEYE SOAP, soaps, Iowa Soap Co.

POWER CIRCLE, presses, Prosperity Co., Inc.

POWER-FLEX, underfeed stokers, Link-Belt Co.

POWER-FLOW, roof ventilator, DeBothezat Fans Div., American Machine & Metals, Inc.

POWERMASTER, package automatic boilers, Orr & Sembower, Inc.

POWERMASTER, stacker, Lewis-Shepard Products, Inc.

POWER-PAK, charge system detergent, drycleaning, Pennsylvania Salt Mfg. Co.

POWERSON, fire-fighting nozzles, American-La France-Foamite Corp.

POWER-VEYOR, permanently mounted horizontal belt conveyor, Rapid-Standard Co., Inc.

POW PLUS, dry powdered soap, Keystone Aniline & Chemical Co., Inc.

POWER PLUS, air-operated laundry presses, Pantex Mfg. Corp.

PR, paint remover, Caled Products Co., Inc.

PRATT & CADY, brass and iron valves, Reading-Pratt & Cady Div., American Chain & Cable Co., Inc.

PREE-HEET, return systems, Fred H. Schaub Engineering Co., Inc.

PREE-SPOTTER, concentrated prespotter, Rayochem Products Co.

PREFERRED, generators, Preferred Utilities Mfg. Corp.

PRE-MARKED STRIP TAG, solvent- and waterproof marking tags, Pre-Marked Strip Tag Co.

PREMIER, gas engine lubricators, Lunkenheimer Co.

PREPCO, antiseptic soap, Lincoln Research, Inc.

PRESET, a type of free-vane air-operated controller, Bristol Co.

PRES-GRIP, shaping and finishing wetcleaned and dried garments, Pres-Grip Corp.

PRESO, heavy prespotter, G & G Chemical Co.

PREE-SPOTTER, heavy-body prespotter, Caled Products Co., Inc.

PRES-SPOTTER S, prespotter, Nu-Pro Mfg. Co.

PRES-SPOTTER 23, prespotter, Patek & Co.

PRESS KING, laundry press pads, Fullo Corp.

PRESS MASTER, electric steam generator, Automatic (Sussman) Steam Products Corp.

PRESSTITE, flexible metal connector for modern laundry and pressing machines, American Brass Co., American Metal Hose Branch.

PRESTO, self-sealing paper bands, Sure-Hold Div., Nashua Gummed & Coated Paper Co.

PRESTO CLEANER, press-head cleaner, Stadham Co., Inc.

PRESTOPRESS, air-operated drycleaning presses, Goldman Pressing Machine Corp.

PRIDE, washing powder, Swift & Co.

PRIMA BRAND, leather belting, Philadelphia Belting Co.

PRIME SOHP, soap, Beach Soap Co.

PRIMS COVER A BUTTON, button molds, William Prym, Inc.

PRINCESS, wire hangers, Vail Mfg. Co.

PRINTWEIGH, weight printing scales, Toledo Scales Co.

PROCTOR & SCHWARTZ, automatic shampooing and drying systems for rugs, Proctor & Schwartz, Inc.

PRODUCTIMETERS, counting machines, Durant Mfg. Co.

PRODUCTO, timer, American Laundry Machinery Co.

PROLYTE, enzymic digestive agent, Allen & Vickers, Inc.

PROPASOL, solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.

PROSPERITY, complete line of laundry and drycleaning equipment, Prosperity Co., Inc.

PROSPERITY APRONS, clipper and alligator F.W.I. aprons, Carman & Co., Inc.

PROSPERITY BLUE, concentrated laundry blue, Carman & Co., Inc.

PROSPERTROL, automatic washer controls, Prosperity Co., Inc.

PROSPOWAX, powdered F.W.I. wax, Carman & Co., Inc.

PROTECTO, identification systems, American Laundry Machinery Co.

PROTECTORAPH, checkwriters, check signers, Todd Co., Inc.

PROTECTOR, colored fabric pick-up bags, F. H. Bonn Co.

PRO-TEK, protective hand cream, E. I. du Pont de Nemours & Co., Inc.

PROTEX TOILET SOAP, soaps, Iowa Soap Co.

PRYM'S garment hangers, safety pins, William Prym, Inc.

P22, hand stapler, Arrow Fastener Co.

PUF-FINISHER, puffers, steam puff irons, G. H. Bishop Co.

PULLCLEAN, continuous towels cabinets, Pullclean Towel Cabinet System.

PULVOAX, powdered wax, Lewis National Corp.

PURATIZE, mildewproofing, Aqua-Sec Corp.

PURE-TEX, laundry bactericide, Cidex Corp.

PURGE-O-SOL, drycleaning soap, G & G Chemical Co.

PURGO, soap builder, Minnesota Chemical Co.

PURITAN, brass pins, Oakville Div., Scoville Mfg. Co.

PURITY, soap flakes, soap, Iowa Soap Co.

PURITY, sour, Thompson-Hayward Chemical Co.

PURKETT, shakeout and conditioning tumblers, assembly reels, bins, Purkett Mfg. Co.

PURO, spotting compound, Adco, Inc.

PURDIESEL, lubricating oils for diesel engines, Pure Oil Co.

PURLENE, lubricating oils, Pure Oil Co.

PUR-O-CEL, filter, Proportioners, Inc.

PUR-O-SAN, drycleaning soap, Huntington Laboratories, Inc.

PURPLE EDGE, padding, Egan Cotton Mills.

PYRAMID, laundry nets, R. Lally Co.

PYRAMID, liquid color stripper, Washine National Sands, Inc.

PYRATLEX, lipstick, nail polish, paint remover, R. R. Street & Co., Inc.

PYRENE, fire extinguishers, Pyrene Mfg. Co.

PYRO, liquid soap, National Cleaners Chemical Mfg. Co.

PYRO, surface thermometer, Pyrometer Instrument Co., Inc.

PYRO-COTA, soot eradicator, State Mfg., Inc.

PYROFLEX, acid and alkali resisting paints, Maurice A. Knight.

PYRO-SOAP, wetcleaning soap, National Cleaners Chemical Mfg. Co.

PYROTRON, resistance thermometer, Bailey Meter Co.

Q-D, spotting agent, A. L. Wilson Chemical Co.

Q & S, counter rack, Ink-O Products Co.

Q-T, heat recirculators, Kisco Boiler & Engineering Co.

Q-CHROMASTIC, veneer coating for furnace walls, Quigley Co., Inc.

Q-CHROME, refractory material, Quigley Co., Inc.

Q-1, airform coat finisher, U. S. Hoffman Machinery Corp.

Q-7, drier or semi-finisher, U. S. Hoffman Machinery Corp.

Q-2, airform ladies' jacket finisher, U. S. Hoffman Machinery Corp.

QUADRA-CLENE, rug-washing machine, Moore's Time-Saving Equipment Co.

QUADRAFOS, water conditioner, detergent, dispersing agent, Rumford Chemical Works.

QUAKER BLUE, laundry blue, Pennsylvania Salt Mfg. Co.

QUAKER IMPROVED, chlorinated lime, bleach, Pennsylvania Salt Mfg. Co.

QUALITEX, press covers, puff iron covers, sponge pads, Quality Products Co.

QUALITY, net pins, Key-Tag Checking System Co.

QUEEN, wire hangers, Vail Mfg. Co.

QUICK AID, linen fire hose, fire extinguishers, General Detroit Corp.

QUICK BREAK, break powder, Wyandotte Chemicals Corp.

QUICK ELASTIC, liquid and powdered starch, Hubinger Co.

QUICKLIFT, trucks, Lewis-Shepard Products, Inc.

QUIGLEY, fire brick, Quigley Co., Inc.

QUIK-CUT, wrapping table, Coffman Mfg. Corp.

QUIK-CUT, wrapping table, Norman Control Co.

QUIK-LOK, shirt boxes and collar supports, Century Paper Products.

QUIK-PAC, laundry packaging supplies, Quik Pac Div., H. Wesley Hutchins Co.

QUIK-PACH, fire brick, A. P. Green Fire Brick Co.

QUIK STEAM, press, Butler Mfg. Co.

QUIKTAG, laundry marking tag, Boston Clip & Tag Co.

QUIK-TEMP, heating system, Fred H. Schaub Engineering Co., Inc.

QUIK-GO, digestive agent, Wilson, A. L., Chemical Co.

R.C.C., rug cleaning and finishing compound, soaps, Lewis National Corp.

R.C.U., rug and upholstery soap, Keystone Aniline & Chemical Co., Inc.

R.G.F., stain remover, Riverside Mfg. Co.

R-K, valves and regulators, Ruggles, Klingemann Mfg. Co.

R-M, asbestos products, packing friction materials and rubber products, Raybestos-Manhattan, Inc.

RP, high pressure boiler, Titusville Iron Works Co., Div. Struthers Wells Corp.

RP&C, valves, Reading-Pratt & Cady Div., American Chain & Cable Co., Inc.

RSR, digestive spotting agent, Wallerstein Co., Inc.

R-S, spotter, Caled Products Co., Inc.

RACOLITE, chemical feeders, water rectifier, Rathbun Co.

RAD-GO, ink eradicator, Wilson, A. L., Chemical Co.

RADIANT, continuous tumbler, Radiant Drying Co.

RAINBOW, marking tags, Triple "M" Inc.

RAINBOW, plastic garment hangers, Henry Hanger Co. of America

RAINBOW, spotting pencils, Eaton Chemical & Dyestuff Co.

RAK-GUIDE, rack index for separating garments alphabetically, Para-Lux Products Co.

RAM, drycleaning soap, Adco, Inc.

RAMPPELLENT, water repellent, Perm-Aseptic Corp.

RAMPLEX, detergent, Perm-Aseptic Corp.

RAMSEY, chain drive, chain drive sprockets, shaft couplings, Ramsey Chain Co., Inc.

RAMTITE, plastic refractory, Ramtite Co.

RANAREX, combustion recorder, Permutit Co.

RANDE, metal press pads, Bergen Machine & Tool Co., Inc., Rande Unit Springs Div.

RAPIDOR, manually cleaned pressure leaf filters, Hercules Filter Corp.

RAPID POWER BOOSTER, portable power belt conveyor, Rapids-Standard Co., Inc.

RAPID ROLLER, conveyor, Rapids-Standard Co., Inc.

RAPID-WHEEL, conveyor, Rapids-Standard Co., Inc.

RAPISTAN TABLE-VEYOR, belt conveyor to facilitate general handling of laundry bundles, Rapids-Standard Co., Inc.

RATHBUN, water softeners and filters, water softening equipment, Rathbun Co.

RAY, oil and gas burners, pumps, Ray Oil Burner Co.

RAYBESTOS, brake lining, clutch facing, brake blocks, Raybestos-Manhattan, Inc.

RAY-METL, clutch facings, Raybestos-Manhattan Co.

RAYOSOAP, moisture-bearing drycleaning soap, Rayochem Products Co.

RAYS, tape, Spear Box Co., Inc.

RAYS KRAFT, packaging supplies, Spear Box Co., Inc.

RAYTEN, cold-water soap, John T. Stanley Co., Inc.

READY-PACK, cast split repair sleeves, Dresser Mfg. Div., Dresser Industries, Inc.

RECEIV-O-MARKER, identification systems, Best Forms Co.

RE-CIRK-IT, circuit breakers, Heinemann Electric Co.

RECLAMITE, stain remover, H. Kohnstamm & Co., Inc.

RECORDAK, accounting machines and systems, record systems, Recordak Corp.

RED ARROW, feed ribbon, Southern Mills, Inc.

RED CHIEF, rubber belting, Webb Belting & Supply Co.

RED EDGE, pads and padding for flatwork ironers and press machines, Knitted Padding Co.

RED FLASH, water heaters, Pick Mfg. Co.

RED & GREEN LINE, laundry fabrics, Hettrick Mfg. Co.

RED-WHITE-BLUE, matched pants and shirts for rental uniforms, Shreveport Garment Mfg. Co.

REDI-CUT, flannel press pads, F. H. Bonn Co.

REDILIFT, trucks, Lewis-Shepard Products, Inc.

REDI-MARK, strip tags, Pittsburgh Tag Co.

REDI-TAG, pre-printed marking tag, Larton Products Co., Inc.

RED LABEL, tallow soap, Beach Soap Co.

RED LINE, flatwork ironer aprons, Pittsburgh Waterproof Co.

RED-LINE, garment drier, Hopkins Equipment Co.

RED LINE, greases, oils, lubricants, Union Oil Co. of California

REDMEX, neutral red oil flakes and powder, Allen B. Wrisley Co.

RED STAR, diapers, towels and toweling, George Wood Sons & Co.

RED STAR, feed ribbons, New York Belting & Packing Co.

REDUCO, liquid color stripper, Washine National Sands, Inc.

REDUCTORS, speed reducers, Boston Gear Works, Inc.

REDUX, indelible ink remover, Boston Clip & Tag Co.

REESCO, powdered laundry soap, Minnesota Chemical Co., Inc.

REE-TONE, drycleaning detergent, Riverside Mfg. Co.

REEVES ARMY TWEIL, uniform cloth, Reeves Brothers, Inc.

REFINEX, zeolite cleanser and reconditioner, Refinite Corp.

REFINITE, zeolite water softeners, Refinite Corp.

REFLEXIT, replasticizer, Patek & Co.

REGAL, engines, Ames Iron Works

REGAL, laundry indelible ink, I. Geller & Son

- REGAL**, neutral synthetic detergent, Armour & Co.
- REGENT**, 30-pound synthetic drycleaning unit, Detrex Corp.
- REINTIES**, dependable arches, suspended walls, Geo. F. Heintjes Co.
- REKAB**, powdered soap, soap chips, Minnesota Chemical Co.
- RELIABLE**, fur cleaning and fur storage equipment, Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
- RELIAANCE**, a.c. and d.c. motors, motor generators, Reliable Electric & Engineering Co.
- RELIEF**, spotter, Murphy Sales Co.
- RE-LOGIK**, powdered soap, Minnesota Chemical Co.
- REMA**, vacuum systems for presses, Rema Corp.
- REMO**, cover-cloth fasteners, rack clips, net and marking pins, trays, safety and steel pins, overall tags, Risdon Mfg. Co.
- RENARDS**, leather cleaning and dyeing, Renards-RENEWO, angle, check and globe valves, Lunkenheimer Co.
- RENEX**, detergents, Industrial Chemicals Dept. (Atlas Powder Co.)
- RE-NU**, potash saponified resin and fatty acids, Armour & Co.
- RENUIT**, liquid starch, Washine National Sands, Inc.
- REO**, motor trucks, Reo Motors, Inc.
- REP**, water repellent, R. R. Street & Co., Inc.
- RE-PELL**, water repellent, Starr Soap & Chemical Co., Inc.
- REPEL-O-MOTH TANK**, mothproofing equipment, Repel-O-Products Div., North American Merchandising Co.
- REPUBLIC**, controls, instruments, Republic Flow Meters Co.
- RE-PURGO**, powdered soap, Minnesota Chemical Co.
- RESEARCH**, leather belting, Graton & Knight Co.
- RESEARCH**, zeolite, Research Products Corp.
- RESILLO**, press pads, Resillo Co.
- RESINTEX**, nylon press cloths, Gibraltar Fabrics, Inc.
- RESISTI-CAL**, weather-proofing product, Caled Products Co., Inc.
- RESISTO**, water repellent, Resisto Laboratories
- RESIZET**, sizing, Takamine Laboratory, Inc.
- RESSYN**, zeolite, Hungerford & Terry, Inc.
- RESTORTEX**, liquid sizing, National Cleaners Chemical Mfg. Co.
- RESYN ADHESIVES**, glues, gums, sizings, starches, National Starch Products, Inc.
- RETRON**, flatwork ironer, American Laundry Machinery Co.
- REVERE**, copper and brass, Revere Copper & Brass, Inc.
- REVERE SHOWMASTER**, floodlights and lighting equipment, Revere Electric Mfg. Co.
- RE-VI**, water repellents, Davies-Young Soap Co.
- REVOLITE**, laundry roll covers, padding press covers, Revolite Div. (Atlas Powder Co.)
- REX**, soluble liquid drycleaning soap, Davies-Young Soap Co.
- REX**, sour Kern Laboratories
- REX-FLEX**, metal hose, Flexonics Corp.
- REX-TITE**, heat-proof reattachable couplings, Flexonics Corp.
- REX-TUBE**, flexible metal hose, Flexonics Corp.
- REX-WELD**, metal flexible hose, tubing, Flexonics Corp.
- REZ**, charged soap solvent conditioner, U. S. Mining Corp.
- REZEX**, resinous zeolite, Elgin Softener Corp.
- REZISTAL**, stainless steel, Crucible Steel Co. of America
- R-51**, drycleaning unit, Shields Engineering & Mfg. Co.
- R-51A**, drycleaning unit, Shields Engineering & Mfg. Co.
- RHINAMEL**, heavy duty enamel, Tropical Paint & Oil Co.
- RIBBON DELUXE**, cotton ribbon, Milwaukee Printed String Co.
- RIBBON-RITE**, marking machine, Textile Marking Machine Co., Inc.
- RICE'S**, paint products, Barreled Sunlight Paint Co.
- RIDDAX**, special alkali compound, Wyandotte Chemicals Corp.
- RIMACO**, size, stripper, wetcleaning soap, Riverside Mfg. Co.
- RIMACO GENERAL FORMULA**, ink and stain remover, Riverside Mfg. Co.
- RINGKEY**, filter pads, Multi-Metal Wire Cloth Co., Inc.
- RINK-L-FREE**, garment distributor, Time Savers, Inc.
- RINTEX**, soap and alkali compound, Wyandotte Chemicals Corp.
- RISDON**, cuff fasteners, marking flags and targets, Risdon Mfg. Co.
- RISOGRAF**, powdered soap, Allen B. Wisley Co.
- RIVERSIDE**, wet spotter, carpet shampoo, stripper, Riverside Mfg. Co.
- ROADOL**, paint, oil and grease remover, Package Chemical Co., Inc.
- DOADOL L**, wet spotter, Package Chemical Co., Inc.
- ROBERTS**, numbering machine, Roberts Numbering Machine Co.
- ROBINETS**, laundry nets, G. S. Robins & Co.
- ROBINS**, acetate sour, G. S. Robins & Co.
- ROBOT**, self-contained automatic washers, Robot Laundry Machinery Sales, Div. Wolf Co.
- ROCCAL**, germicide, Sterwin Chemicals, Inc.
- ROCKET**, laundry presses, Troy Laundry Machinery Div., American Machine & Metals, Inc.
- ROCKET**, synthetic solvent drycleaning unit, Vic Cleaning Machine Co.
- ROCKWEAVE**, laundry textiles, aprons, cover and filter cloth, double-face flannel, laundry nets, Callaway Mills, Inc.
- RODALON**, non-staining disinfectant, Fairfield Laboratories
- RO-FLO**, air compressors, vacuum pumps, Allis-Chalmers Mfg. Co.
- ROK-RIB**, laundry nets, Whitehouse Products, Inc.
- ROLA-RUG**, rug rolling and packaging machines, Lincoln Products, Inc.
- ROLLERVEYOR**, roller conveyor, Mechanical Handling System, Inc.
- ROLL-O**, trouser guards, Paulin Products Co.
- ROLL-ON-SEAL**, gummed tape dispensers, Roll-on-Sealer Co.
- RONAFEX**, elastic synthetic tubing with woven metal wire cover, Ronaflex Tubing Co., Inc.
- RO-NOR**, stain remover, H. Kohnstamm & Co., Inc.
- ROOFKOTER**, roof material, Tropical Paint & Oil Co.
- ROOT BAGGER**, garment bagger, Huebsch Div., American Laundry Machinery Co.
- ROTAIRE**, conditioning tumbler, American Laundry Machinery Co.
- ROTARY**, condensation meters, American District Steam Co., Inc.
- ROTARY**, soot blower, Marion Machinery Foundry & Supply Co.
- ROTEX**, drycleaning extractor, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
- ROTH**, boiler feed units, pumps, Roy E. Roth Co.
- ROTO BRUSH**, electric upholstery shampoo machine, Certified Chemical & Equipment Co.
- ROTOJET**, self-cleaning pressure leaf filters, Hercules Filter Corp.
- ROTO-KLEEN**, filter, Bowser, Inc.
- ROTO-MATIC**, rotating laundry process units, Unipress Co.
- ROUND "R"**, steel boiler, coal, oil, gas stoker, Kewanee Boiler Corp.
- ROUND THE BUTTON**, shirt-ironing press pads, Resillo Co.
- ROYAL**, brass safety pins, Risdon Mfg. Co.
- ROYAL**, medium-titer, coco-tallow chip, neutral soap, Armour & Co.
- ROYAL**, rubber hose, rubber belting, U. S. Rubber Co.
- ROYAL CALENDER**, cylinder type flatwork ironer, American Laundry Machinery Co.
- ROYAL OAK**, leather belting, Webb Belting & Supply Co.
- ROYAL PINE**, soaps, Iowa Soap Co.
- ROYAL WORCESTER**, lace leather, Graton & Knight Co.
- RP NO. 757**, stain remover, H. Kohnstamm & Co., Inc.
- RUBBER BASE**, primer sealer, Tropical Paint & Oil Co.
- RUBBER CITY**, roofing materials, Rubber City Mfg. Co.
- RUBBER-COAT**, floor system for concrete floors, Wilbur & Williams Co.
- RUBEROID**, built-up roofing materials, Ruberoid Co.
- RUBINOFF**, tags, certificates, guarantees and supplies, M. Rubinoff, Inc.
- RUGGLO**, rug cleaning soap, Merson Products Co.
- RUG-IT**, rug cleaning detergents, Certified Chemical & Equipment Co.
- RUG-O**, rug and carpet soap, Davies-Young Soap Co.
- RUSCO**, rubber belting, woven belting, press tape, Russell Mfg. Co.
- RUSKO**, water conditioner, Wyandotte Chemicals Corp.
- RUST BAR**, paint, rust preventative, Midland Paint & Varnish Co.
- RUST-E-LIM**, rust remover, Johnson Chemical Industries, Inc.
- RUSTEX**, sour, Hood Chemical Co., Inc., Crescent Div.
- RUSTEX**, sour, George Stearns Chemical & Mfg. Co.
- RUSTEZE**, rust solvent, Hood Chemical Co., Inc., Crescent Div.
- RUSTGO**, rust remover, A. L. Wilson Chemical Co.
- RUSTICK**, rust remover, National Cleaners Chemical Mfg. Co.
- RUSTICON SS**, rust preventative, Philadelphia Quartz Co.
- RUSTIKOTE**, rust preventative, Tropical Paint & Oil Co.
- RUST RAIDER**, boiler and heating system cleaner, Radiator Specialty Co.
- RUSTYBASE**, rust remover, Hackik Bleach Co.
- R-X**, spotter—grease, paint etc., Caled Products Co., Inc.
- SL-230**, tumbler, laundry, rug & carpet, Hoyt Mfg. Corp.
- S.M.A.**, high alumina firebrick, McLeod & Henry Co., Inc.
- SOH**, low-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.
- SP**, high-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.
- S-R**, spotter for brown and yellow stains, Caled Products Co., Inc.
- SABIN**, glove cleaning machines, Sabin Machine Co.
- SACO**, speed reducers, Stephens-Adamson Mfg. Co.
- SACON**, belt conveyor carriers, Stephen-Adamson Mfg. Co.
- SAFE CUTTERS**, cord knife, Time Savers, Inc.
- SAFE-TIE ANCHORS**, refractory anchors, Ramtite Co.
- SAFE-T-SOL**, dry oil, paint and grease remover, Patek & Co.
- SAFE-T-THRIFT**, safety solvent unit, Butler Mfg. Co.
- SAFETY**, diapers, Sani-Top Co.
- SAFETY LINEN SOUR**, sour, Diamond Alkali Co.
- SAF-T-AIR**, venelator, United Electric Motor Co.
- SAF-T-MARK**, marking tags, Stry-Lenkoff & Co.
- SAGER SPREADERS**, flatwork spreaders, M. A. Pocock
- SARSET**, air-setting bonding mortar, A. P. Green Fire Brick Co.
- SALVE-O-LIN**, skin salve, Keystone Aniline & Chemical Co., Inc.
- SAMOSSET**, soap, Lewis National Corp.
- SAMSON**, packing, U. S. Rubber Co.
- SAMSONMITE**, filter bags, feather bags, extractor covers, soap whips, starch whips, tumbler pads, Manitowoc Cotton Goods Mfg. Co.
- SANA-FILTER**, low-pressure, filter-type soap, Huntington Laboratories, Inc.
- SANA-SIZE**, sizing, Huntington Laboratories, Inc.
- SANI-SOUR**, antiseptic, all-purpose sour, Standard Chemical Works Co.
- SANITEX**, baskets, trucks, bags, C. R. Daniels, Inc.
- SANTONE**, drycleaning process, Emery Industries, Inc.
- SANTONE MC**, mothproof, Emery Industries, Inc.
- SANTONE SS**, silk size, Emery Industries, Inc.
- SANTONE WR**, water repellent, Emery Industries, Inc.
- SANI TOP**, diaper cans, diaper pails, deodorants, Sani-Top Co.
- SANI-TYPE**, heat reclaim, Patterson-Kelley Co., Inc.
- SANI-WHITE**, bleach, G. S. Robins & Co.
- SAPOTEX**, soap compound, G. S. Robins & Co.
- SAPHIRE**, stripper and stain remover, Lewis National Corp.
- SARCO**, steam traps, temperature regulators, Sarco Co., Inc.
- SARCOIDE**, sour, Slater-Robins Co., Inc.
- SARCO-CONCENTRATE**, paint and grease remover, Slater-Robins Co., Inc.
- SARCO-MIST**, moth spray, Slater-Robins Co., Inc.
- SARCOSTAT**, motor-operated valve, Sarco Co., Inc.
- SARCO-SOL**, paint and grease remover, Slater-Robins Co., Inc.
- SARCO-TEX**, wetcleaning detergent, Slater-Robins Co., Inc.
- SATINETTE**, combination starch, Keever Starch
- SAV-A-LOAD**, extractor covers, F. H. Bonn Co.
- SAVO**, 92% powder soap, John T. Stanley Co., Inc.
- SAVONOL**, wet spotter, Patek & Co.
- SAXMAYER**, tying machines, National Bundle Tyer Co.
- SCALE-EATER**, boiler compound, W. F. Johnson Products Co.
- SCALINA**, boiler compound, quick scale remover, Rathbun Co.
- SCHAUB**, boiler feed and condensation return systems, Fred H. Schaub Engineering Co., Inc.
- SCHRAMM**, air compressors, Schramm, Inc.
- SCIENTIFIC**, boiler water treatment, Scientific Boiler Water Conditioning Co.
- SCOTCH-MUND**, boilers, Mund Boilers, Inc.
- SCOTSMAN**, washers, Ayr-Mor Machinery Co., Inc.
- SCOTTDAL**, stoking grate, Marion Machine Foundry & Supply Co.
- SCOTTIE, JR.**, high-pressure riveted boilers, Kewanee Boiler Corp.
- SCOUREX**, textile scouring, Essential Chemicals Co.
- SCAM BLOOD**, spotting agents, Warco Laboratories
- SCRUB**, spot remover, Starr Soap & Chemical Co., Inc.
- SEABLUE**, blue, Speare Co.
- SEA FOAM**, soap powder, Colgate-Palmolive-Peet Co.
- SEALED POWER**, totally enclosed fan-cooled motors, Crocker-Wheeler Electric Mfg. Co., Div. Joshua Hendy Iron Works
- SEAL MASTER**, ball bearings, Stephens-Adamson Mfg. Co.
- SEAL-O-SAN**, enamel, Huntington Laboratories, Inc.
- SEAL SILICATE**, silicate adhesive, Philadelphia Quartz Co.
- SEALTITE**, liquid-tight electrical wiring conduit, American Brass Co., American Metal Hose Branch

S

S-A, anti-sulfuric-acid valves, Lunkenheimer Co.
 SD-130, tumbler, drycleaning, Hoyt Mfg. Corp.
 S.E.B., wetcleaning soap, E. F. Drew & Co., Inc.
 S.I.S., roofing, Barrett Div., Allied Chemical & Dye Corp.

- SEAMLEX**, seamless flexible metal hose and tubing, Seamlex Co., nlc.
- S.E.B., CONCENTRATED**, silk and wool soap, E. F. Drew & Co., Inc.
- SEC**, synthetic drycleaning unit, Sec-O-Matic Corp., Div. International Projector Corp.
- SEC-CLEANIZED**, drycleaning process, Sec-O-Matic Corp., Div. International Projector Corp.
- SECO**, dry water repellent, Patek & Co.
- SEC-O-MATIC**, synthetic solvent drycleaning unit, Sec-O-Matic Corp., Div. International Projector Corp.
- SEC-O-MISER**, solvent recovery unit, Sec-O-Matic Corp., Div. International Projector Corp.
- SECTOFOG**, moth protection by fogging, Fumol Corp.
- SECURITY**, marking pins, Risdon Mfg. Co.
- SECURITY**, A-1, lustering formula, fur glaze aerosol type, Security Fur Seal Co., Inc.
- SEE-SAFE**, plastic storage and blanket bags, Mehl Mfg. Co.
- SELF-SEAL**, adhesive shirt bands, National Paper Band Co.
- SELF-STICK**, shirt bands, Phoenix Products Co.
- SELLERS**, steam boilers, open return systems, Sellers Engineering Co.
- SEMI-STOD**, cleaners' light naphtha, Anderson-Prichard Oil Corp.
- SENECA**, soap, Lewis National Corp.
- SENIOR**, lubricators, Lunkenheimer Co.
- SENSIMATIC**, accounting machines, Burroughs Adding Machine Co.
- SENSITROL**, relay, Weston Electrical Instrument Corp.
- SENTINEL**, oil cup, Lunkenheimer Co.
- SEPTO SOUR**, sour, Diamond Alkali Co.
- SERDEX**, gauges, solvent humidity, Serdex & Co.
- SERVIS RECORDER**, time and truck recorders, Service Recorder Co.
- SEQUILATE**, laundry detergent, Diamond Alkali Co.
- 1707**, blue, H. Kohnstamm & Co., Inc.
- 722**, rug and carpet soap, Caled Products Co., Inc.
- 727**, curtain and blanket wetcleaning product for wheel washing, Caled Products Co., Inc.
- SHAMROCK**, canvas baskets, hampers, trucks, Meese, Inc.
- SHAW**, collar edger, Reed Mfg. Co.
- SHEDITE**, waterproof belt cement, I. B. Williams & Sons
- SHEEN-TEX**, synthetic rug cleaning soap, Blenco Co.
- SHELBY**, tubing, National Tube Co.
- SHELL-TYPE**, trucks, Market Forge Co.
- SHELL**, naphtha, stain remover, Shell Oil Co., Inc.
- SHELL-LESS**, washers, U. S. Hoffman Machinery Corp.
- SHELL-SOL**, naphtha, petroleum solvent, Shell Oil Co., Inc.
- SHELL-TOX**, insecticide, Shell Oil Co., Inc.
- SHERWIN-WILLIAMS**, paints, varnishes, enamels, lacquers for maintenance purposes, Sherwin-Williams Co.
- SHIELDS**, drycleaning unit, Shields Engineering & Mfg. Co.
- SHINE BRIGHT**, liquid scrubbing soap, Hild Floor Machine Co.
- SHIPS-A-FE**, bags, Lanning Bag & Specialty Co.
- SHIRLAN**, textile fungicides, E. I. du Pont de Nemours & Co., Inc.
- SHIRTAINER**, shirt packaging, Loroco Industries, Inc.
- SHIRT BIN**, for conveying shirts, J. W. Steele & Co.
- SHIRT CHUTE**, metal chute for shirt handling, Rosenthal Mfg. Co.
- SHIRT PAX**, combination shirt board, collar support and box, Package Meters, Inc.
- SHIRT PAX**, shirt bag, Time Savers, Inc.
- SHIRTTRANSPORT**, shirt transporter, G. H. Bishop Co.
- SHIRT TRUX**, steel shirt bins, Time Savers, Inc.
- SHONE**, pneumatic sewage ejector, Yoemans Bros. Co.
- SHOO**, odor destroyer, Caled Products Co., Inc.
- SHOWERFEED**, floor, rug and carpet scrubbing machine, Hild Floor Machine Co.
- SHOWER-PRUF**, water repellent, Adco, Inc.
- SHOW-MASTER**, lighting unit to accent displays by flood or spotlight, Revere Electric Mfg. Co.
- SHREDDED**, 88% flake soap, John T. Stanley Co., Inc.
- SIBUR**, mothproofing agent, Sibur Mothproofing Co.
- SIDE AISLE**, truck bodies, Montpelier Mfg. Co.
- SIEBRING**, electromatic steam boiler, Siebring Mfg. Co.
- SIGNAL**, flameproof, insecticide, Signal Chemical Mfg. Co.
- SILENT HUNTINGTON**, scrubbing and polishing floor machine, Huntington Laboratories, Inc.
- SILENT SERF**, portable vacuum cleaner, Certified Chemical & Equipment Co.
- SIL-EX**, black metal washer, Gross Machinery Co., Inc.
- SILICON**, spun nylon press cover, Phoenix Supply Co.
- SILIC-O-NECTIC**, time delay relays, Heinemann Electric Co.
- SILKANWOOL**, silk and wool soap, North Coast Chemical & Soap Works
- SILKCLEEN**, spotting agent, Silkleen Mfg. Co.
- SILTEX**, FLAKES, medium titer soap, Allen B. Wrisley Co.
- SILVER-CREST**, washers, U. S. Hoffman Machinery Corp.
- SILVER-KOTE**, lacquer, Pittsburgh Waterproof Co.
- SILVER LEAF**, nets, Southern Mills, Inc.
- SILVERLINK**, roller chains, sprockets, Link-Belt Co.
- SILVERSEAL**, colored specialty tapes, Gummed Tape & Devices Co.
- SILVERSTREAK**, silent chain drives, Link-Belt Co.
- SILVERTEEN**, wire hangers, Academy Hanger Co., Inc.
- SILVERTINE**, straight, safety pins, Vail Mfg. Co.
- SILVERTOP**, steam trap, V. D. Anderson Co.
- SIMMONS**, cuff and tag tacking machines, Simmons Machine Co.
- SIMMONS ELECTRO-MEND**, mending and patching machines, Simmons Machine Co.
- SIMPLEX**, break powder, H. Kohnstamm & Co., Inc.
- SIMPLEX**, laundry tumblers, extractors and washers, flatwork ironers, drycleaning tumblers, Ironer Div., Speed Queen Corp.
- SIMPLEX**, office machines, time recorders, Simplex Time Recorder Co.
- SIMPLEX**, oil burners, Simplex Oil Heating Corp.
- SINGER**, sewing machines, accessories, Singer Sewing Machine Co.
- SINGLEDISCS**, filter cloth blankets, Multi-Metal Wire Cloth Co., Inc.
- SIPON**, wetcleaning detergent, American Alcolac Corp.
- SIRCO**, tropical nut shells for fur cleaning, Bernard Sirota Co.
- SIRCO FUME**, liquid fumigating gas, Bernard Sirota Co.
- 6-B**, automatic synthetic drycleaning unit, Prosperity Co., Inc.
- 6-T**, benzine soap, Midland Color & Chemical Co.
- 630**, paste type drycleaning soaps for caustic or distillation clarification systems, Caled Products Co., Inc.
- 60 SECOND**, solvent, Superior Products Co.
- SIZE**, water-soluble size finish, Davies-Young Soap Co.
- SIZE-ALL**, liquid sizing, Keystone Aniline & Chemical Co., Inc.
- SIZE-ALL**, permanent sizing, Benda Products, Inc.
- SIZEOFF**, enzymic desizing agent, Takamine Laboratory, Inc.
- SIZ-IN**, hat sizing, Greenville Chemical Co.
- SKELLSOLVE**, petroleum solvents, Skelly Oil Corp.
- SKIRT KLIPS**, skirt clips, West Side Corp.
- SKORTEX**, wetcleaning compound, Wyandotte Chemicals Corp.
- SKY ROCKET**, extractors, Hammond Laundry-Cleaning Machinery Co.
- SKYTINT**, liquid laundry blue, Kliegman Bros., Inc.
- SLACKS SAKS**, trouser bags, Phoenix Products Co.
- SLICKER**, brushes, American Pressboard Co., Inc.
- SLIP EASY BRAND**, motor oil, boiler and roofing materials, Riverside Chemical Co., Inc.
- SLIP-IN**, collar protectors, Phoenix Products Co.
- SLIP-KNOT**, belt dressing, Webb Belting & Supply Co.
- SLIP-NOT**, special tanned leather belting, Milwaukee Leather Belting Co.
- SLIP-ON**, hanger shields, Academy Paper Box Co.
- SLIP-ON**, hanger shields, Larton Products Co., Inc.
- SLIP-ON**, sleeve press covers, F. H. Bonn Co.
- SLYDE-OUT**, washer, Troy Laundry Machinery Div., American Machine & Metals, Inc.
- SM-I**, drycleaning systems, Western Laundry Machinery Co.
- SMASH**, break powder, Minnesota Chemical Co.
- SMITH-DRUM**, laundry machinery, Smith-Drum Co.
- SMITH'S**, collar, cuff and neckband replacements, Gilman B. Smith Co., Inc.
- SMOOTHTEX**, metallic filter cloth, Multi-Metal Wire Cloth Co., Inc.
- SMOOTH-TEX**, press cloth, feed ribbons, Pittsburgh Waterproof Co.
- SNAG-PRUF**, rippers, Arrow Mfg. Co.
- SNA-PON**, trouser guards, Tillery Container Co.
- SNAP-TITE**, cover-cloth clamp, J. W. Steele & Co.
- SNAPPY**, laundry marking pens, Snap Back Co., Inc.
- SNO MUD CHIEF**, truck tires, Mohawk Rubber
- SNOWFINE CRYSTALS**, alkali cleanser, Solvay Process Div., Allied Chemical & Dye Corp.
- SNOWFLAKE CRYSTALS**, sodium sesquicarbonate, Solvay Process Div., Allied Chemical & Dye Corp.
- SOAP-O-MATIC**, soap dispenser, Hopkins Equipment Co.
- SOAPITE**, soap, Lewis National Corp.
- SOFTEE**, pressure and vacuum filters, Hammond Laundry-Cleaning Machinery Co.
- SOFTIE**, dispers, Sani-Top Co.
- SO-GO**, soap, wetcleaning, Wilson, A. L., Chemical Co.
- SOILSORB**, rag and overall detergent, Cowles Chemical Co.
- SO-KLEEN PENETRANT**, drycleaning detergent, Merson Products Co.
- SO KLEEN 57**, synthetic drycleaning soap, Merson Products Co.
- SOLAD**, drycleaning soap, Murphy Sales Co.
- SOLARINSE**, optical whitener, Carlton Chemical Co., Inc.
- SOLARSUDS**, detergent, Carlton Chemical Co., Inc.
- SOLBLUE**, blue, Speare Co.
- SOL BREAK**, break powder, Lewis National Corp.
- SOLBUMEN**, spotting agent, Eaton Chemical & Dyestuff Co.
- SOL-CLAR**, filter powder, Murphy Sales Co.
- SOLGON**, paint remover, Lewis National Corp.
- SOLID CURB**, laundry, drycleaning extractors, American Laundry Machinery Co.
- SOLIT-AYR**, washers, tumblers, extractors, Ayr-Mor Machinery Co., Inc.
- SOLVE**, soaps, Lewis National Corp.
- SOLOZONE**, sodium peroxide, E. I. du Pont de Nemours & Co., Inc.
- SOL-SIL-ATE**, alkali soap builder, Lewis National Corp.
- SOL-SIL-ATE**, special alkali compounds, Speare Co.
- SOL SOUR**, sour, Lewis National Corp.
- SOL SUDS**, soap, Lewis National Corp.
- SOLTEX**, drycleaning detergent, Riverside Mfg. Co.
- SOLUBLE PINE OIL S-189**, penetrant, Jacques Wolf & Co.
- SOLUBON**, textile dyeing assistants, American Aniline Products, Inc.
- SOL-U-LUBE**, neutral lubricant, Huntington Laboratories, Inc.
- SOL-U-NESE**, dry and wet spotter, Huntington Laboratories, Inc.
- SOL-U-SOAP**, drycleaning soap, Huntington Laboratories, Inc.
- SOLV-AIRE**, synthetic solvent recovery unit, New England Trawler Equipment Co.
- SOLVATONE**, solvent, Carbide & Carbon Chemical Corp., Unit of Union Carbide & Carbon Corp.
- SOLVENIZED**, tire rebuilding and repair material, Mohawk Rubber Co.
- SOLVENT SAVER**, solvent recovery unit, Vic Cleaning Machine Co.
- SOLVENT-STILL**, distills synthetic solvents, Detrex Corp.
- SOLVEX**, spotting agent, Spix Products Co.
- SOL-VIC**, drycleaning unit for use with petroleum solvent, Vic Cleaning Machine Co.
- SOLVINK**, ink, paint, rust, blood stain remover, Greenville Chemical Co.
- SOLVINOL**, spotting soap, Keystone Aniline & Chemical Co., Inc.
- SOLV-O-MARK**, indelible marking pen, Mark-O Corp.
- SOLVO-MISER**, solvent recovery unit, Hoyt Mfg. Corp.
- SOL-VO-RUST**, sour, Thompson-Hayward Chemical Co.
- SOLZYME**, digestive agent, Lewis National Corp.
- SOME'S**, uniforms, badges, embroidered emblems, Some's Terminal Uniforms
- SONOMOR**, safety and straight pins, wire garment hangers, William Prym, Inc.
- SOURFLO**, laundry sour, Wyandotte Chemicals Corp.
- SOURTEC**, sour, Wyandotte Chemicals Corp.
- SOUTHDOWN**, diapers, George Wood, Sons & Co.
- SOUTHEASTERN**, laundry textiles, Southeastern Textile Co.
- SOUTHERN COLONEL**, sponge press pads, Southern Mills, Inc.
- SOVAFLO S**, Stoddard petroleum solvent, Socony-Vacuum Oil Co., Inc.
- SOVAFLO 140**, petroleum safety solvent, Socony-Vacuum Oil Co., Inc.
- SOV-OIL**, soap concentrate, A. F. Wolke Co.
- SPACEMASTER**, stacker, Lewis-Shepard Products, Inc.
- SPAN**, emulsifier, wetting agent, Industrial Chemicals Dept. (Atlas Powder Co.)
- SPARKETTE**, detergent, Pennsylvania Salt Mfg. Co.
- SPARKLE**, chlorophyll deodorant concentrate, American Mothproofing Co.
- SPARKLE**, drycleaning soap, Starr Soap & Chemical Co., Inc.
- SPARKLEAN**, drycleaning detergent, Cidex Corp.
- SPARKOLOR**, detergent emulsifier, Cidex Corp.
- SPARKS**, rubber pedal pad for drycleaning presses, Sparks Pad Co.
- SPARTAN**, flat and block leather V belt, leather packings, Graton & Knight Co.
- SPARTAN**, nets, Egan Cotton Mills
- SPEARE'S**, blues, Lewis National Corp.
- SPECIAL EXTRACTOR**, leather belt, Webb Belting & Supply Co.
- SPECIAL FINISH**, starch, A. E. Staley Mfg. Co.
- SPECIAL FINISHER**, cleans, polishes and lubricates flatwork ironers, College Chemical Co.
- SPECIAL PER**, hot synthetic drycleaning unit, Vic Cleaning Machine Co.
- SPECIAL "T"**, all purpose soap, Kern Laboratories
- SPECIALTY**, garment bagging device, Specialty Devices Co.
- SPEED**, brass fasteners, erasing shields, Speed Products Co., Inc.
- SPEED-BAGGER**, bagging device, Para-Lux Products Co.
- SPEEDEE**, drying cabinets, Hammond Laundry-Cleaning Machinery Co.
- SPEED-DEE**, paint and grease remover, Adco, Inc.
- SPEEDEX**, extractor, Zephyr Laundry Machinery
- SPEED-FIBRE**, day tags, Market Industries Co., Inc.
- SPEEDISETS**, sales and record forms, Moore Business Forms, Inc.

- SPEED KING**, tumblers, Hammond Laundry-Cleaning Machinery Co.
- SPEEDLIFT**, trucks, Lewis-Shepard Products, Inc.
- SPEEDMASTER**, rug scrubber, Certified Chemical & Equipment Co.
- SPEEDMASTER**, stackers and portable elevators, Lewis-Shepard Products, Inc.
- SPEEDMATIC**, compression tucker, Speed Products Co., Inc.
- SPEEDPLUS**, filter powder, Dicalite Div., Great Lakes Carbon Corp.
- SPEED SET**, variable numbering machines, American Numbering Machine Co.
- SPEEDS-IT**, prespotter, G & G Chemical Co.
- SPEEDSTER**, extractor, washers, Prosperity Co., Inc.
- SPEEDUX DIPMASTER**, water-repellent dip tanks, Devere Co.
- SPEED-VAN**, delivery trucks, Linn Coach & Truck Div., Great American Industries, Inc.
- SPEEDWAY**, preshboard covers, folders, Speed Products Co., Inc.
- SPEEDWAY**, washer, tumblers, starch cookers, truck tubs, Industrial Laundry Machinery Co., Inc.
- SPEEDY**, washers, driers, water heaters, dry-cleaning machines, Speedy Washer Mfg. Co.
- SPEEDYLETRIC**, steam generators, Livingstone Engineering Corp.
- SPEEDY-SET**, automatic lock bottom carton, Cornell Paperboard Products Co.
- SPHERO**, iron ball valves, Fairbanks Co.
- SPHINX**, starch, Arabol Mfg. Co.
- SPIRO**, steam hot water heaters and nurseries, David Stout & Sons
- SPIX**, prespotter, drycleaning and suede soap, hand cream, Spix Products Co.
- SPORTERS**, collar supports, Time Savers, Inc.
- SPORTFOLIOS**, sport shirt package, Package Masters, Inc.
- SPORT PAX**, window envelope for packaging of sport shirts, Time Savers, Inc.
- SPORTRIGHT**, sport-shirt folding board, Key-Tag Checking System Co.
- SPORT SHIRT**, press unit, American Laundry Machinery Co.
- SPORTSTER**, shirt folder, Time Savers, Inc.
- SPOTLESS**, paste drycleaning soap, National Cleaners Chemical Co.
- SPOTLESS CHLOROFORM**, substitute for chloroform, Slater-Robbins Co., Inc.
- SPOTLESS SIZE**, synthetic sizing, Slater-Robbins Co., Inc.
- SPOTOUT**, spotting aids, Kennedy Products Co.
- SPOTRIGHT**, spotting agent, Allen & Vickers, Inc.
- SPOTS-GO**, spotting agent, paint, oil and grease remover, Wilson, Allen, Chemical Co.
- SPOT-X**, prespotter, Huntington Laboratories, Inc.
- SPRAY DREST**, liquid spray finish for suedes or smooth leathers, Caled Products Co., Inc.
- SPRAY-MASTER**, spray gun, Cleaners Specialties Supplies Co.
- SPRAY MIX**, coating refractory, Mexico Refractories Co.
- SPUNYLON**, nylon net, Carson Textile Co., Inc.
- SPURT**, blood remover, Fatsch & Co.
- SQUARE-HEAT**, steel boiler, coal, oil, gas stoker, Kewanee Boiler Corp.
- SQUAREWAY**, curtain and blanket stretchers, Hopkins Equipment Co.
- SQUIRES**, reducing and regulating valves, C. E. Squires Co.
- S-R**, stain remover, Caled Products Co., Inc.
- SS COMPOUND**, washing compounds, Lewis National Corp.
- STABILON**, textile dyeing assistants, American Aniline Products, Inc.
- STACK-EM**, hanger rack, Time Savers, Inc.
- STACKRITE**, flatwork stacker, American Laundry Machinery Co.
- STA-DAMP**, plastic basket liners, Zuckerberg Co.
- STADLUBE**, starch lubricant, Stadham Co., Inc.
- STAD-SPUN**, spun treated nylon cloth, Stadham Co., Inc.
- STADTAPE**, flatwork ironer tape, Stadham Co., Inc.
- STAD-TEX**, treated nylon cloth, Stadham Co., Inc.
- STADWAX**, ironer oil, powdered wax, Stadham Co., Inc.
- STAG BRAND**, press covers, aprons, bags, feed ribbons, Pittsburgh Waterproof Co.
- STAGG**, spotting aids, G & G Chemical Co.
- STAIN-A-WAY**, oxidized-stain remover, Warco Laboratories
- STAINEX**, laundry sour, Standard Chemical Works Co.
- STAIZ**, collar supports, Time Savers, Inc.
- STAMPAGRAPIH**, indelible hot-iron transfers, Stampagraph Co., Inc.
- STAMPATCH**, cloth mender, Stampatch Magic Mender
- STANCO**, blues, sours, Standard Chemical Works Co.
- STANDARD**, extractor, Fletcher Works, Inc.
- STANDARD**, laundry, drycleaning machinery, Standard Laundry & Cleaning Machinery Co.
- STANDARD**, pin carrier, Keyes-Davis Co.
- STANDARD**, press pads, Resillo Co.
- STANDARD**, record system, Standard Register Co.
- STANDARD**, shirt unit, Prosperity Co., Inc.
- STANDARD**, valves, W. M. Chace Co.
- STANDARD FLAKE SOAP**, NO. 1, soap, Standard Soap Co. of Camden
- STANDARD KING**, net pins, Keyes-Davis Co.
- STANDATROL**, air-operated relay, Bailey Meter Co.
- STAND-BY**, rental service of new and reconditioned air compressors, Air Compressors & Motors, Inc.
- STANDCO**, speed indicators, tachometers, Herman H. Sticht Co., Inc.
- STAND-EZE**, foot mat, Colonial Rubber Co.
- STAN-O-MATIC**, petroleum and synthetic dry-cleaning units; petroleum washer-extractor combination, Standard Laundry & Cleaning Machinery Co., Inc.
- STANORUST**, rust preventative, Standard Oil Co.
- STANOX**, hot-water built soap, John T. Stanley Co., Inc.
- STANSO**, cleaning chemicals, detergents, Standard Soap Co. of Camden
- STANSO TEX OIL**, sulfonated oils, turkey red oil, Standard Soap Co. of Camden
- STANTEK**, press and cover cloth, John T. Stanley Co., Inc.
- STA-NU PROCESS**, fabric-renewing compound introduced through steam line, Sta-Nu Corp.
- STAPEX**, starch, A. E. Staley Mfg. Co.
- STAPL-TITE**, marking tags, Liberty Marking Tag Co., Inc.
- STA-PUT**, lubricating oils, E. F. Houghton & Co.
- STARCHTEX**, starch lubricant, Lewis National Corp.
- STAR DOWN**, diapers, George Wood, Sons & Co.
- STAR-RITE**, collar supports, shoulder shields, trouser guards, tie holders, industrial aprons, Hodge Farwell & Co.
- STARR-BRITE**, wetcleaning soap, Starr Soap & Chemical Co.
- STARR-100**, drycleaning soap, Starr Soap & Chemical Co.
- STAR SERVICE**, wire hangers, Star Service Hanger Div., L. A. Young Spring & Wire Corp.
- STARTEX**, break compound, H. Kohnstamm & Co., Inc.
- STATICOL**, drycleaning soap, R. R. Street & Co., Inc.
- STAY-PUT**, adhesive collar stays, Story Mfg. Co.
- STAZUP**, collar supports, Alfred J. Brooks
- STEAM-AIRE**, garment finishers, Pantex Mfg. Corp.
- STEAM-MAIRE**, unit heater, Young Radiator Co.
- STEAMMASTER**, boilers return systems, Steamaster Automatic Boiler Co.
- STEAM BOILER PLANT**, boilers, Eclipse Fuel Engineering Co.
- STEAM-FLEX**, press connectors, Flexonics Corp.
- STEAM FLOW**, pads, Resillo Co.
- STEAM FLOW**, rubber press pad, Newhouse Co.
- STEAMIN STEVE**, portable electric steam generator, Electric Steam Boiler Sales, Div. Wolf Co.
- STEAM-PAK**, packaged steam generators, York-Shipley, Inc.
- STEAMTITE**, flexible metal connector for laundry and pressing machines, American Brass Co., American Metal Hose Branch
- STEEL-BILT**, extractors, washers, B & G Machinery Co., Inc.
- STEELCOTE**, paint, varnishes, waterproofing, Steelcote Mfg. Co.
- STEELE BIN**, shirt carrier, J. W. Steele & Co.
- STEELE GLIDER IRON**, electric iron, J. W. Steele & Co.
- STEELELOX**, self-locking shirt band, J. W. Steele & Co.
- STEEM**, neutral lubricant for steam spotting, Caled Products Co., Inc.
- STEEM-ATIC**, vertical water tube boiler, Kisco Boiler & Engineering Co.
- STEIGLER MARKOGRAPH**, marking machine, George Steigler Co.
- STEIN**, add-a-section finishers' tables, Lawrence M. Stein Co.
- STEIN**, cuff tacker, Stein Specialty Co.
- STEINER**, paper towels, soap dispensers, toilet soap, Steiner Sales Co.
- STELLAR**, filter, Indico, Inc.
- STEMALLOY**, patented silicon bronze alloy, Lunkenheimer Co.
- STERI-CHLOR**, deodorizer and germicide, Wyandotte Chemicals Corp.
- STERICLEAN**, moth repellent sour, Johnson Chemical Industries, Inc.
- STERILCO**, pumps, traps, controls, regulators, Sterling, Inc.
- STERLING**, corn starch, Kever Starch Co.
- STERLING**, pumps, boiler, Sterling Engineering & Mfg. Co.
- STERLING**, salt, salt tablets, dispensers, International Salt Co.
- STEVEDORE, JR.**, conveyor, Rapids-Standard Co., Inc.
- STEVENSON**, automatic counting machine, Stevenson Co.
- STEWART-WARNER**, instruments, Stewart-Warner Corp. Alemite Corp.
- STIK-TITE**, belt cement, Milwaukee Leather Belting Co.
- STILLSON-GENUINE**, wrench, Walworth Co.
- STOD-SOL**, Stoddard solvent, Anderson-Prichard Oil Corp.
- STONEWALL**, fans, Stonewall Sales Co.
- STORAGEMASTER**, vault-conditioning equipment, Walter Haertel Co.
- STOVER**, water softeners, pressure filters, Stover Water Softener Co.
- STOWE STOKERS**, industrial stokers, Johnson & Jennings Co.
- STRATE**, special drycleaning detergent, Spix Products Co.
- STREAMLINE**, chest-type flatwork ironer, American Laundry Machinery Co.
- STREAMLINED LABELORS**, moistening machine, Better Packages, Inc.
- STREAMLINER**, continuous towel cabinet, Steiner Sales Co.
- STREEPENE**, stripper, R. R. Street & Co., Inc.
- STREETEX**, drycleaning soap for chlorinated solvents, R. R. Street & Co., Inc.
- STRESSITE**, solid bronze machine parts, Amplex Div., Chrysler Corp.
- STRETCH-ALL**, garment stretchers, tie forms, sleeve finishing boards, sleeve forms, Jack Hodges Specialty Co.
- STRIKE'S**, hydraulic extractor, Strike's Laundry Machinery, Inc.
- STRIPALENE-O** stripper, Keystone Aniline & Chemical Co., Inc.
- SUPEX**, strippers, Package Chemical Co., Inc.
- STRIP INK**, ink remover, Slater-Robbins Co., Inc.
- STRIP-KLEEN**, liquid stripper, Kem Laboratories
- STRIPMASTER**, wire strippers, Ideal Industries, Inc.
- STRIPP**, powdered stripper and bleach, G & G Chemical Co.
- STRIPPET**, strippers, Package Chemical Co., Inc.
- STRIPPIT**, stain remover, stripper, Kliegman Bros., Inc.
- STRIPPOLYTE**, dye remover, Slater-Robbins Co., Inc.
- STRIP-STICK**, stripper, National Cleaners Chemical Mfg. Co.
- STRIPTEX**, powdered stripper, Hood Chemical Co., Inc., Crescent Div.
- STROMBERG**, time clocks, Stromberg Time Corp.
- STRONG**, steam specialties, Strong, Carlisle & Hammond Co.
- STURDI-BILT**, metal laundry washer, Jensen Mfg. Co.
- STYLOGRAMS**, simulated paper handkerchief printed with sales message, Nashua Gummed & Coated Paper Co.
- SUBALOX**, lead and aluminum glimmer paint, Subox, Inc.
- SUBMERSON**, gas/oil boilers, gas/oil burners, gas/oil water heaters, David Stout & Sons
- SUBOX**, anti-corrosive paint, Subox, Inc.
- SUDS**, paste drycleaning soap, Adco, Inc.
- SUDSO**, soap builder, Washine National Sands, Inc.
- SUDSYN**, sudsy synthetic solvent, E. F. Drew & Co., Inc.
- SUEDECARE**, leather cleaning process, Suede-care, Inc.
- SUEDE KING**, leather and suede cleaning method, Suede King
- SUITADDRESS**, hangers, Cleaners Hanger Co.
- SULFACO**, wetcleaner, R. R. Street & Co., Inc.
- SULFOSUDS**, soapless soap, Merson Products Co.
- SULFSTAD**, soap, Stadham Co., Inc.
- SULPHOGEN**, spotting compound, Riverside Mfg. Co.
- SULPHOTEX**, detergent, soaps, Keystone Aniline & Chemical Co., Inc.
- SULVA**, soapless wet cleaner, G & G Chemical Co.
- SUN**, paste filter soap, Adco, Inc.
- SUN-TEAM**, automatic cloth-lifting basket liner, Cleaners Specialties Supplies Co.
- SUNBEAM**, blue, Spare Co.
- SUN FLUORESCENT**, lighting fixtures, Sun Fluorescent Electric Co.
- SUN-PROOF**, paint, Pittsburgh Plate Glass Co., Paint Div.
- SUNSET**, blueing and color remover, stripper, American Dye Corp.
- SUNSET DYTINT**, dye for use in washing machines, North American Dye Corp.
- SUNSET DYTWHITE**, whitener for use in washing machines, North American Dye Corp.
- SUNSHINE**, tie-forms, Sunshine Necktie Forms
- SUPHER**, laundry machinery, Super Laundry Machinery Co., Div. St. Joe Machines, Inc.
- SUPER AALKALI 60**, alkali compound, Solvay Process Div., Allied Chemical & Dye Corp.
- SUPERBELT**, leather belting, Philadelphia Belting Co.
- SUPERBILD**, soap builder, Solvay Process Div., Allied Chemical & Dye Corp.
- SUPER CHIEF**, truck tires, tire repair material, Mohawk Rubber Co.
- SUPERCHLOR**, bleach, Patterson Laboratories, Inc.
- SUPER-CLEAR**, rust-removing sour, Johnson Chemical Industries, Inc.
- SUPER DETERGENT**, detergent-type drycleaning soap, National Cleaners Chemical Mfg. Co.
- SUPER DRY-O-MATIC**, signal and alarm control for tumblers, Rosenthal Mfg. Co.
- SUPER-ELCONITE**, high-capacity greensand zeolite, Elgin Softener Corp.
- SUPEREX**, sheet block and pipe insulations, Johns-Manville
- SUPERFINE**, laundry starch, Washine National Sands, Inc.
- SUPER FURNAS-CRETE**, castable refractory, Mexico Refractories Co.
- SUPERGAUGE**, gauges, U. S. Gauge Div., American Machine & Metals, Inc.
- SUPER HIDING**, interior white, U. S. Gutta Percha Paint Co.
- SUPER-HILO**, powder, built soda soap, Armour & Co.
- SUPER HILOSET**, temperature bonding mortar, Mexico Refractories Co.
- SUPER ILLUMINATORS**, incandescent lighting equipment, Edwin F. Guth Co.
- SUPER-JET**, built soap, soda & nonionic synthetic, Armour & Co.

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SUPERIOR, crush-proof sorting hooks, lint traps, V & W Equipment Co.
SUPERIOR, marking machines, Textile Machinery Co., Inc.
SUPERIOR, rubber-tired wheels and casters, Jarvis & Jarvis, Inc.
SUPERIOR, rug cleaning machinery and accessories, Superior Rug Machinery Co.
SUPERIOR, steam generators, Superior Combustion Industries, Inc.
SUPERIOR, regulator, thermostat, trycock, water gauge valve, steam valve, Superior Controls Co., Inc.
SUPERKLEEN, laundry alkali, Washine National Sands, Inc.
SUPER-MATIC, boilers, Eclipse Fuel Engineering Co.
SUPER-MERCURY, extractors, Troy Laundry Machinery Div., American Machine & Metals Inc.
SUPER MONO-FIBRIK, plastic firebrick, Mexico Refractories Co.
SUPER MULTIFLEX, calcium carbonate, Diamond Alkali Co.
SUPER OILITE, ferrous-base lubricating bearings, Amplex Div., Chrysler Corp.
SUPER ORTH, anhydrous orthosilicate, Washine National Sands, Inc.
SUPERPACKING, leather packings, Philadelphia Belting Co.
SUPER-PLASTIC, refractory materials, A. P. Green Fire Brick Co.
SUPER PURGO, soap builder, Minnesota Chemical Co.
SUPER SERVICE, press and ironer pads and padding, Progressive Textile Mfg. Co.
SUPER SHEEN, alkali cleanser, Solvay Process Div., Allied Chemical & Dye Corp.
SUPER-SILICATE, detergent, Diamond Alkali Co.
SUPER SILVERTOP, steam traps, strainers, traps, V. D. Anderson Co.
SUPER-SOL, prespotter, National Cleaners Chemical Mfg. Co.
SUPER-SALTEX, drycleaning detergent, Riverside Mfg. Co.
SUPER-SPEED, drycleaning tumbler, American Laundry Machinery Co.
SUPER STEEL, pins, safety pins, William Prym, Inc.
SUPER SYLON, ironer, American Laundry Machinery Co.
SUPER-TEX, detergent, Nu-Pro Mfg. Co.
SUPER-VAC, rug cleaning suction machine, American Laundry Machinery Co.
SUPER-WEAR, press covers, Gustin-Kramer Co.
SUPER X, break powder, Speare Co.
SUPER-ZARMO, air-driven laundry presses, American Laundry Machinery Co.
SUPER-ZARMOETTE, air-driven laundry presses, American Laundry Machinery Co.
SUPER-ZORIC, drycleaning unit, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
SUPREME, laundry starch, Clinton Foods Inc.
SUPREME, water softeners and filters, Bruner Corp.
SURE-FLUO, ironer wax, Johnson Chemical Industries, Inc.
SURE-GRIP, V-groove sheaves, flat belt pulleys, rubber V-belts, T. B. Wood's Sons Co.
SURE-HOLD, paper specialties, wrappers, Sure-Hold Div., Nashua Gummed & Coated Paper Co.
SURELOC, aluminum collar and cuff fasteners, Sureloc Paper Clip Co.
SURE-RETURN, condensation pumps, Chicago Pump Co.
SURE-RINSE, rinsing aid, Johnson Chemical Industries, Inc.
SURFADYNE, textile leveler, Essential Chemicals Co.
SURFALUX, resin emulsion paint, Vita-Var Corp.
SURFAX, wetting agent, E. F. Houghton & Co.
SURFICO SHIELD, silicone type colorless water repellent, Surface Protection Corp.
SURFEX, calcium carbonate, Diamond Alkali Co.
SURFEX MM, calcium carbonate, Diamond Alkali Co.
SUSPENSO, calcium carbonate, Diamond Alkali Co.
SUSSMAN, steam iron, Automatic Steam Products Corp.
SUZIE-Q, garment finisher and fabric conditioner, Excelsior Machinery Co.
SWAGELOC, reducer fitting for tubing, Crawford Fitting Co.
SWAN, valves, Klipfel Mfg. Co.
SWANEE, cover duck, Minnesota Chemical Co.
SWANSDOWN, calcium carbonate, Diamond Alkali Co.
SWATCH WAY, spotting course, Delray School of Spotting Instruction
SWIFT, soaps, Swift's Technical Laundry Service Div.
SWINGLINE, staples, staplers, Speed Products Co., Inc.
SWIVELoader, box or car loaders, Stephens-Adamson Mfg. Co.
SWIV-O-HOOK, hangers, Garment Hanger Co.
SYLON, chest-type flatwork ironer, American Laundry Machinery Co.
SYLVANIA, cellophane, Sylvania Div., American Viscose Corp.
SYNASOL, solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
SYNCHRO-METER, electric telemeter, Bailey Meter Co.
SYNCHRO-VALVE, diaphragm control valve, Bristol Co.
SYNDEET, insecticide, U. S. Rubber Co.
SYNDET, synthetic detergent, West Side Corp.
SYNFLEX, outside and interior enamel, Midland Paint & Varnish Co.
SYN-KLEEN, synthetic detergent, G. S. Robins & Co.
SYNOTERGE, drycleaning soap for chlorinated solvents, Rayochem Products Co.
SYNRENE, O.D., concentrate for synthetic drycleaning, Wonder Wash Corp.
SYNRENE 210, drycleaning detergent, Wonder Wash Corp.
SYNSO, synthetic drycleaning soap, Nu-Pro Mfg. Co.
SYNSUDS, soap, H. Kohnstamm & Co., Inc.
SYNSUDS, synthetic detergent, G. S. Robins & Co.
SYNSUDS, synthetic soap powder, Trico Chemical Div., Tri-State Equipment Co.
SYNTHEEL, liquid filter soap, National Cleaners Chemical Mfg. Co.
SYNTHE-SOL-100, drycleaning soap for synthetic solvent, Patek & Co.
SYNTHITE, zeolite, Hungerford & Terry, Inc.
SYNTHO, soap for chlorinated solvents, National Cleaners Chemical Mfg. Co.
SYNTHO-S-AVER, solvent recovery unit, Detrex Corp.
SYNTHO SUDS, synthetic soap chips, West Side Corp.
SY PENETRANT, drycleaning detergent, Merson Products Co.
- T**
- TDL**, high-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.
TABASCO, water heaters, Kewanee Boiler Corp.
TACO, heaters, condensers, hot-water systems, Taco Heaters, Inc.
TAD, insecticides, deodorants, Tad Chemical Co., Div. Acme Industrial Compounds Corp.
TAD, tags, Boston Clip & Tag Co.
TAG-A-DAY, laundry marking tags and pins, Boston Clip & Tag Co.
TAGGER, sewing machine for tagging, Chandler Machine Co.
TAG-O-ELECTRIC, makes marks and attaches tags, Textile Marking Machine Co., Inc.
TAG-O-MATIC, tag making and marking machine, Textile Marking Machine Co., Inc.
TAHARA, silver burnishing machine, American Laundry Machinery Co.
TAHOE, laundry blue, Patek & Co.
TAKALAB, concentrated enzymic digestant, Takamine Laboratory, Inc.
TA-KARA-HUKS, drycleaning specialty for cleaning drapes with hooks attached, Take-Care Mfg. & Sales Co.
TAKMERSE, enzymic digestant for bath, Takamine Laboratory, Inc.
TALASE, desizing agent, Takamine Laboratory, Inc.
TALLEY, belt- and motor-driven wooden washers, Talley Laundry Machinery Co.
TALLY, hand counter, Denominator Co., Inc.
TAN-AN-INK, ink remover, Package Chemical Co., Inc.
TANSOL, tannin stain remover, Greenville Chemical Co.
TAN-X, semi-wet stain remover, National Cleaners Chemical Mfg. Co.
TAQUET, tachometer, Herman H. Sticht Co., Inc.
TARBONIS, protective skin cream, Tarbonis Co.
TARGO, tar remover, A. L. Wilson Chemical Co.
TASCO, alkali (soap builder), Lewis National Corp.
TASCO TINT, blue, Lewis National Corp.
TAYLOR, stokers, American Engineering Co.
TECHNICLEAN, drycleaning soap, Fry Bros. Co.
TEJAX, valve indicator, indicating handwheels, Tejax Engineering Corp.
TELEFLEX, overhead rotary conveyor, Teleflex, Inc.
TELL BOARD, bulletin board, Mine Safety Appliances Co.
TELLEVEL, bin level control switches, Stephens-Adamson Mfg. Co.
TEL-U-VISON, transparent garment bags, Mehl Mfg. Co.
TEMPLETON, steam traps, Sterling Engineering & Mfg. Corp., Templeton Mfg. Co.
TEN-MINUT, bleach, Warco Laboratories
10 & 20, shirt bins, Time Savers, Inc.
TEN 22, laundry and drycleaning chemicals and detergents, Roberts-Modaber Co.
TERGESSOL, paint and grease remover, Slater-Robbins Co., Inc.
TERGIT, spotting compound, Riverside Mfg. Co.
TERGITOL, wetting agent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
TER-TEX, drycleaning concentrate, Spix Products Co.
TETRACLEAN, synthetic drycleaning unit, Ayr-Mor Machinery Co., Inc.
TETRA-NOVAL, wetcleaning soap, Keystone Aniline & Chemical Co., Inc.
TETRAPOL, spot washing, tar removal, General Dyestuff Corp.
- TETRA-SAN**, liquid detergent, Huntington Laboratories, Inc.
TEX-ALL, rug cleaner, Certified Chemical & Equipment Co.
TEXANA, laundry soap, Texas Soap Mfg. Corp.
TEX-IT, upholstery cleaner, Certified Chemical & Equipment Co.
TEXTITE, industrial detergent, H. Kohnstamm & Co., Inc.
TEXIZE, sizing preparation, Package Chemical Co., Inc.
TEXO, laundry soap, E. F. Drew & Co., Inc.
TEXSCOUR, low-titer neutral red-oil soap flakes, Armour & Co.
TEXSOL, drycleaning detergent, Riverside Mfg. Co.
TEXTAG, lot system of production control, Carman & Co., Inc.
TEXTAG, drycleaners identification system, Speed Check Co., Inc.
TEXTO, glazed thread, Fleischer Mills, Inc.
TEXTURE-SAN, fabric conditioner, Huntington Laboratories, Inc.
TEZYME, protein-removing desizing agent, Fabat Sales Co.
THANITE, insecticide concentrate, Hercules Powder Co.
THERMALITE, 1000° F.F. high heat aluminum paint, Tropical Paint & Oil Co.
THERMOCON, solvent temperature control, Mar-Mak Machinery Mfg. Co.
THERMO-HUMIDIGRAPH, combination temperature and humidity recorder, Bristol Co.
THERMOTEX, cover cloth, H. Kohnstamm & Co., Inc.
THERMOTEX "S", heat-resistant cover cloth, H. Kohnstamm & Co., Inc.
THERMOTROL, radiator control, Sterling, Inc.
THERMO-VENTO, drying tumbler, American Laundry Machinery Co.
THREAD-TITE, anti-seize compound (stick form) pipe thread lubricant, Armite Laboratories
T-32, gushtacker, Arrow Fastener Co.
THOR, intermediate quality, stiff mud firebrick, Mexico Refractories Co.
THORAL, rug shampoo, Turco Products, Inc.
THO-RO, pearl buttons, Tho-Ro Products, Inc.
THORO, spot and stain removers, ammonia, fur cleaner, fire extinguishers, Thoro Products Co.
3B, automatic synthetic drycleaning unit, Prosperity Co., Inc.
3-B DYNAMITE, soap, Rome Soap Mfg. Co.
3-DIMENSIONAL, press covers, F. H. Bonn Co.
302 5C, cover cloths, Whitehouse Nylon Products
3-STAR, leather and waterproof leather belting, Charlotte Leather Belting Co.
328, ironer oil, John P. Lynch Co.
THIRIFLEX, drycleaning soap, detergent and emulsifier, Pennsylvania Soap Mfg. Co.
THIRTY-TWO, collar supports, M. H. Grobauer Co.
THY-MO-TROL, electronic motor control, General Electric Co.
TI-BAG, cover for Ti-Rak, Para-Lux Products Co.
TIBRODE, cotton flannel padding and nets, Tingue, Brown & Co.
TICKETAG, drycleaning identification system, M Corp. Sales Co.
TICOSTEAM, packaged steam generator, Titusville Iron Works Co., Div. Struther Wells Corp.
TICOTHERM, high-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.
TIE-PAK, tie racks and bags, Phoenix Products Co.
TIGER, grease cups, Lunkenheimer Co.
TIGER, paste-type detergent, Adco, Inc.
TILTOR, shirt unit and shirt presses, American Laundry Machinery Co.
TIME-O-MATIC, timers for extractors, Rosenthal Mfg. Co.
TIME SAVERS, garment racks, trouser guards, shirt envelopes, Time Savers, Inc.
TI-ME-TER, laundry equipment timer, Bildwell Mfg. Co.
TIMKEN, roller bearings, tubings, Timken Roller Bearing Co.
TINDECK, double-face padding, Tingue, Brown & Co.
TINTEX, dye and dye remover, Park & Tilford
TI-PAKS, paper twine for identification and marking purposes, A. Kimball Co.
TI-RAK, necktie hanger, Para-Lux Products Co.
TITANIC, stripper, Spix Products Co.
TITE-FLEX, flexible metallic tubing, industrial and finishing filters, Titeflex, Inc.
TITSEAL, gasket and joint sealing compound, Radiator Specialty Co.
TOKEN-TAGS, marking tags, Pre-Marked Strip Tag Co.
TOLEDO, scales, Toledo Scale Co.
TOPAZ, high-titer built soap chips, Armour & Co.
TOPS, drycleaning detergent, Nu-Pro Mfg. Co.
TORK, time switches, Tork Clock Co., Inc.
TORNADO, blowers, industrial vacuum cleaners, floor machines, Bruner Electric Mfg. Co.
TORRIDOR, blower unit heater, Trane Co.
TOTRUST, rust preventative, Wilbur & Williams Co.
TOUCH, volatile dry spotter, G & G Chemical Co.
TRAN-CEL-SEAL, cellulose tape, Gummed Tape & Devices Co.
TRANSITE, asbestos-cement pipe, Johns-Manville
TRANSVEYOR, horizontal belt conveyor, Mechanical Handling Systems, Inc.
TREASURE, brass safety pins, (unguarded coil), Oakville, Div., Scoville Mfg. Co.
TREET-O-UNIT, constant rate proportioning pump, Proportioners, Inc.
TRI, fur cleaning fluid, Walter Haertel Co.

TRIAD, alkali and emulsion cleaning compounds, Detrex Corp.

TRIAD E, trichorethylene solvent, Detrex Corp.

TRI-CLAD, motors, General Electric Co.

TRICLENE, drycleaning solvent, E. I. du Pont de Nemours & Co., Inc.

TRICO, electrical and lubricating devices, Trico Fuse Mfg. Co.

TRICO, wetcleaning sour, Trico Chemical Div., Tri-State Equipment Co.

TRIFLEX, drycleaning detergent, Pennsylvania Salt Mfg. Co.

TRIMERSE, enzymic digester, Trico Chemical Div., Tri-State Equipment Co.

TRIO, alkali compounds, bleach, boiler compound, Trico Chemical Works, Inc.

TRIPLE-A, paints, Quigley Co., Inc.

TRIPLE "M", marking and tagging machines, Triple "M" Inc.

TRIPLEX, 140" F drycleaning units, American Cleaners Equipment Co., Div. American Laundry Machinery Co.

TRISOI, stain remover, Eaton Chemical & Dye-stuff Co.

TRIUMPH, built non-ionic synthetic detergent, Armour & Co.

TRIWAY, fur finishing machine, Walter Haertel Co.

TRI X, fumigant, Walter Haertel Co.

TROPHELITE, durable protective coating, Tropical Paint & Oil Co.

TROPICAL, cleaner for walls, floors, windows, Tropical Paint & Oil Co.

TROPICAL, nut shells for fur cleaning, Bernard Sirotta Co.

TROUSER-FORMER, pants shaper, Bill Glover, Inc.

TROUS-GARD, trouser guard, Para-Lux Products Co.

TROY, laundry machinery, Troy Laundry Machinery Div. American Machine & Metals, Inc.

TROY-ENBERG, steam engines, generators, Troy Engine & Machine Co.

TROY-MERCURY, drycleaning unit, Troy Laundry Machinery Div., American Machine & Metals, Inc.

TROYSPECIAL, replacement collars, Zuckerberg Co.

TRUCLEEN, petroleum solvent for drycleaning, American Cleaners Equipment Co., Div. American Laundry Machinery Co.

TRU COLOR, dyeing, Tru Color Dye Works

TRUFLEX, light duty V-belts, Gates Rubber Co.

TRUFOLD, shirt folding machine, J. W. Steele & Co.

TRUFORM, steam-air garment finisher, American Cleaners Equipment Co., Div. American Laundry Machinery Co.

TRUMATIC, flatwork folder, American Laundry Machinery Co.

TRUMP, spot remover, Spix Products Co.

TRU-SHEEN, CONCENTRATE, drycleaning soap, Tru-Sheen Corp.

TRUSTY, gasoline strainers, Lunkenheimer Co.

TT TICKET TAG, 4 in 1 combination marking in, receipt, invoice, marking tag, "TT" Ticket Tag Corp.

TUBE-O, trouser guard, Garment Hanger Co.

TUB-TYPE, trucks, Market Forge Co.

TUFF HIDE, padding, Pittsburgh Waterproof Co.

TUFFLEX, padding, Wood Conversion Co.

TUFF-TEX, metal press pads, X. S. Smith, Inc.

TUFFY, heavy duty synthetic detergent, Thomson Chemical Co.

TUMBOLITE, lighting fixture for open-end tumblers, Donnell Co.

TURBO ACTION, washers, Zephyr Laundry Machinery Co.

TURBO GUN, spotting gun, Elliot Rabe Mfg. Co.

TURBO-JET, steam canopy, Hopkins Equipment Co.

TURBO-VAC, single press vacuum system, Pan-fex Mfg. Co.

TURCO, insecticides, germicides, Turco Products, Inc.

TUWAY, strainers, Wright-Austin Co.

TWEEN, emulsifier, wetting agent, Industrial Chemicals Dept. (Atlas Powder Co.)

20th CENTURY, needle bearing, Roller Bearing Co. of America

20-L, laundry starch, Clinton Foods Inc.

TWENTY-TWENTY, front-loading washer, American Laundry Machinery Co.

TWIN CONTACT CONTROLS, controls, regulators, gauges, Perfex Corp.

TWINMATIC, washer and extractor, Imperial Laundry Machinery Co.

TWINPLEX, fur cleaning drum and cage, Walter Haertel Co.

TWIN-PRESS, drycleaning press, Reliable Steam Pressing Machine Service, Inc.

TWIN RAPID, automatic shirt press, general purpose press, Reliable Steam Pressing Machine Service, Inc.

TWINTAINER, extractor, Fletcher Works, Inc.

TWIN-TEX, metal press pads, X. S. Smith, Inc.

TWIST-EMS, hanger combiners, Germain's Inc. Twist-Ems Div.

TWISTEMS, hanger combiners, H. F. Hanscom & Co.

TWITCHELL, emulsifying bases, Emery Industries, Inc.

TWO-IN-ONE, nylon cloth, Zuckerberg Co.

249, stripper, Patek & Co.

2GAV, compressor plant, Westinghouse Air Brake Co., Industrial Products Div.

209, general formula, R. R. Street & Co., Inc.

TY-BORDS, forms for pressing neckties, Joe L. Winner

TYCO, stick machine cleaner for hot irons, presses, Tyson Sales Co., Inc.

TYGON, plastics, U. S. Stoneware Co.

TYMIT, timers, York Clock Co., Inc.

TY-ON, nylon press covers, F. H. Bonn Co.

TYPE 16, 16 + 1, 16 + 2, 16R, soap builders, Turco Products, Inc.

U

U.S., stoneware, U. S. Stoneware Co.

UCON, lubricants (synthetic oil and grease), Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.

UCON, tumblers, drycleaning units, U. S. Hoffman Machinery Corp.

U-DOR-A, spot remover, Nu-Pro Mfg. Co.

ULTRA-LITE, sour, Standard Chemical Works Co.

ULTRAL-SOL, soap builder, Thompson-Hayward Chemical Co.

ULTRA-SPEED, drying tumbler, American Laundry Machinery Co.

ULTRA-WHITE, fluorescent compound, whitener, H. Kohnstamm & Co., Inc.

UNAFLOW, steam engines, Ames Iron Works

UNA RETURN, ironer, Zephyr Laundry Machinery Co.

UNIFLO, drycleaning washer, Western Laundry Machinery Co.

UNIFOAM C, rug and upholstery cleaning detergents, Fumol Corp.

UNIFLOW, water softeners and conditioners, mechanical filters, water supply pumps, Uniflow Mfg. Co.

UNILEVER, cylinders, Zephyr Laundry Machinery Co.

UNILITE, zeolite water softener, Uniflow Mfg. Co.

UNIPRESS, air-driven laundry presses, sleeves, sport shirt units, Unipress Co.

UNITED, laundry cart, U. S. Steel & Wire Co.

UNITED, washable uniforms, United Cotton Goods Co., Inc.

UNITHERM, unit heaters, Clavage Fan Co.

UNIT KLEEN, drycleaning washer-extractor, Unit Wash Co.

UNIT WASH, laundry washer-extractor, Unit Wash Co.

UNIVALVE, valves, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.

UNIVERSAL, printed book matches, Universal Match Corp., St. Louis 3, Mo.

UNIVERSAL SPEED-FEED, sales control system, Egly Register Co.

UNIVERSAL STRIPPER, stain remover and stripper, H. Kohnstamm & Co., Inc.

UNLOADING CASCADE, laundry washer, American Laundry Machinery Co.

UNOX, penetrant for fire-fighting, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.

URBAN, truck bodies, Montpelier Mfg. Co.

U-SAN-O, mothproofing, American Mothproofing Co.

U. S. KOGLON, press pads, sponge, Newhouse Co.

U. S. MODEL 518-1, U. S. Blind Stitch Machine Corp.

USS STAINLESS, stainless steel, U. S. Steel Co.

USTEX, wire and cable, U. S. Rubber Co.

UTILITY, specially built truck bodies, Utility Truck Corp.

V

V-C, feed ribbons, textiles, Virginia-Carolina Laundry Supply Co.

V.D., spotter, Adco, Inc.

V & W, assorting reels, V & W Equipment Co.

VALETERIA, drycleaning and laundry vendor, U. S. Hoffman Machinery Corp.

VALETOR, drycleaning equipment, U. S. Hoffman Machinery Corp.

VAN DYKE SILICA, silica brick, Mexico Refractories Co.

VANETTE, truck bodies, Caravan Div., Universal Sales, Inc.

VANITE, liquid detergent, Adco, Inc.

VAPOR-CLARKSON, steam generating unit, Steam Engineering & Sales Co.

VAPOSAVER, combination tumbler, reclamer, U. S. Hoffman Machinery Corp.

VARIATOR, steam traps, American District Steam Co., Inc.

VAULTMASTER, fur cleaning and storage equipment, Haertel, Walter Co.

VEEDER-ROOT, computing and counting devices, Veeder-Root, Inc.

VEE-LOK, clutch facings, Raybestos-Manhattan Inc.

VEE-THREE, paste drycleaning soap, Riverside Mfg. Co.

VEGETABLE IVORY, buttons, Eureka Button Co.

VELAN UNIVERSAL, steam trap, Velan Engineering Co.

VELCO, marking ink and sets, Ink-O Products Co.

VELOCITY DRAINER, steam trap (float), W. M. Acker Organization, Inc.

VELOCITY STEAM, steam system, Velocity Steam Production Engineering Co.

VEL-ODOR, concentrated liquid odor neutralizer, Caled Products Co., Inc.

VELVET RAINBOW, combination starch, Huron Milling Co.

VELVET SHEEN, rubber base wall paint, Tropical Paint & Oil Co.

VELVET WHEAT, wheat starch, Huron Milling Co.

VELVO, wetcleaning soap, Davies-Young Soap Co.

VERSI, laundry and wetcleaning textile finishing compound, John T. Stanley Co., Inc.

VERTEX, low-liter soap flakes, Swift & Co.

VIBRAMOVER, fur cleaning table, Walter Haertel Co.

VIBRA-SORBER, pipeline vibration absorber, Flexonics Corp.

VIC, drycleaning machinery, Vic Cleaning Machine Co.

VIC SOL, petroleum solvent, drycleaning unit, Vic Cleaning Machine Co.

VICTOR, straight pins, Risdon Mfg. Co.

VICTOR, wheat starch, Kever Starch Co.

VICTORY, blue, Minnesota Chemical Co.

VICTORY, drycleaning soaps, Patek & Co.

VICTORY, fur cleaning fluid, Bernard Sirotta Co.

VICTORY, laundry marking tags, Tagit Co.

VIGIL, diaper antiseptic and deodorant, Patek & Co.

VIKE, pipe joint compound, Keystone Lubricating Co.

VIKING, intermediate quality, dry press firebrick, Mexco Refractories Co.

VIKING, pumps, Viking Pump Co.

VIKING, suds, Los Angeles Soap Co.

VIM, steam engines, Ames Iron Works

VIRGINIA GREENSTONE, non-skid floor surfacing material, soaking and rinsing tubs, wet-cleaner tables, Virginia Greenstone Co., Inc.

VISCOR, filter, Weston Electrical Instrument Corp.

VITA-CAL, self-sealing flat finish in semi-paste form, Vita-Var Corp.

VITA-CLOR, mildewproofing, weatherproofing finishes, Vita-Var Corp.

VITA-LUX, synthetic white enamel spar varnish, Vita-Var Corp.

VITA-VAR, paints, enamels, varnishes, Vita-Var Corp.

VITEK, drycleaning soaps, Patek & Co.

VIVIDOL C1, synthetic drycleaning detergent, Stamford Chemical Co.

VIVIDOL I1, petroleum drycleaning detergent, Stamford Chemical Co.

VIVIPRESS, finishing compound, steam treating chemical, Stamford Chemical Co.

VOKES, air cleaners, filters, separators, strainers, Drico Industrial Corp.

VOLTEX, spotting agent, Spix Products Co.

VOL-U-METER, flow-responsive proportioning pump, Proportioners, Inc.

VORCLAY, bentonite clay, American Colloid Co.

VORCLONE, extractors, tumbler, U. S. Hoffman Machinery Corp.

VORIFLOW, gas and oil burners, Orr & Sembover, Inc.

VORSEK, extractors, drycleaning units, U. S. Hoffman Machinery Corp.

V-S DRIVE, all-electric adjustable speed drive for a.c. circuits, Reliance Electric & Engineering Co.

VULCAN, cover cloth, Pittsburgh Waterproof Co.

VULCAN, stokers, Canton Stoker Corp.

VULCO, V-pulleys, Gates Rubber Co.

VULCOMOUNT, sheaves, Gates Rubber Co.

W

W.D.P., wet or dry prespotter, Warco Laboratories

W.I., drycleaning detergents, Caled Products Co.

W. R. F., wet and dry paint remover, National Cleaners Chemical Mfg. Co.

WALCO, pipe wrench, Walworth Co.

WALDORF, paper hangers, Waldorf Co.

WALLHIDE, paint, Pittsburgh Plate Glass Co., Paint Div.

WALSEAL, threadless bronze fitting, Walworth Co.

WALSH, diaphragms, gaskets, packings, pump valves, Walsh Packing Co.

WALWORTH, valves and pipe fittings, Walworth Co.

WARING, electric steam iron, Waring Products Corp.

WARREN, leather belting, cement, dressing, Warren Belting Co., Inc.

WARRIOR, tire rebuilding and repair material, Mohawk Rubber Co.

WASH-A-WAY, washer, Cook Machinery Sales Co.

WASHEX, combination washer-extractor, Fabric Laundry & Dry Cleaning Machinery Corp.

WASHINE, bleach (sodium hypochlorite), Washine National Sands, Inc.

WASHINITE, detergent, Washine National Sands, Inc.

WASHMOR, nylon laundry nets, Tingue, Brown & Co.
WASHMETER, washing machine recorder, Huebsch Div., American Laundry Machinery Co.
WASHTEX, overall compound, Thompson-Hayward Chemical Co.
WATCH-DOG, water meters, Worthington Pump & Machinery Corp.
WATCOCELL, asbestos pipe covering, blocks, Rubenoid Co.
WATER KING, small water supply pump, Peerless Pump Div., Food Machinery & Chemical Corp.
WATERPROOFON PRK, water repellent, Apex Chemical Co., Inc.
WATERSPAR, polishing wax, Pittsburgh Plate Glass Co., Paint Div.
WATERWAY, laundry combination washer-extractor, Pantex Mfg. Co.
WAXSOL, starch lubricant, Concord Chemical Co.
WAYNE, air compressors, pneumatic and hydraulic hoists, hose reels, Wayne Pump Co.
WEATHER-MAKERS, air conditioning, Carrier Corp.
WEATHER-MASTERS, air conditioning, Carrier Corp.
WEAVE-BAC, reweaving process, Weave-Bac Chemical Co., Inc.
WEDGEWAX, anti-skid floor wax, Pest Control Equipment Co.
WEE-SCOT, high-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.
WEIGHT-O-GRAPH 77, automatic scale attachment for beam scales, Howe Scale Co.
WELDEGE, protective metallic binding, Multi-Metal Wire Cloth Co., Inc.
WELDMASTER, platform, Lewis-Shepard Products, Inc.
WELPCO, steam valves, discs, Western Laundry Press Co.
WERKRITE, neutral tallow flakes, powder, Allen B. Wrisley Co.
WERK'S COLDWATER, built red-oil soap, Allen B. Wrisley Co.
WESCLENE, liquid break, West Side Corp.
WESCO, dry spotter, pre-spotter, West Side Corp.
WESCOTT, shirt packaging supplies, Wescott Products Corp.
WESOFORM, volatile dry spotter, West Side Corp.
WEST COAST, extractors, washers, curtain stretchers, West Coast Laundry Machinery Co.
WESTERN, deep well turbine pumps, deep well turbine pressure systems, Western Pump Co., Ltd.
WESTERN, laundry washers, extractors, drycleaning washer, tumblers, Western Laundry Machinery Co.
WESTINGHOUSE, air compressors, Westinghouse Air Brake Co., Industrial Products Div.
WESTINGHOUSE, lamps, Westinghouse Electric Corp.
WESTINGHOUSE, laundromat, washers, Ald, Inc.
WESTON, electrical indicating instruments, Weston Electric Instrument Corp.
WESTVACO, chlorinated solvent (synthetic), Westvaco Chemical Div., Food Machinery & Chemical Corp.
WET-AGE, wet spotter, G & G Chemical Co.
WETAWAY, water repellent, Carman & Co., Inc.
WET-CLEAN-EZE, wetcleaning soap, Raychem Products Co.
WET-O-DRY, paint remover, Merson Products Co.
WETSIT, wetting agents, Jacques Wolf & Co.
WETSOL, wet spotter, Nu-Pro Mfg. Co.
WETSOLV, penetrant, Package Chemical Co.
WETSPOT, wet spotter, Adco, Inc.
WETSYN, synthetic detergent, E. F. Drew & Co., Inc.
WETTEX, wetcleaner, Essential Chemicals Co.
WETSPOTTER, paint, oil and grease remover, Riverside Mfg. Co.
WHALEBONE, leather and waterproof leather belting, Charlotte Leather Belting Co.
WHEATEX, combination starch, Huron Milling Co.
WHEAT-N-CORN, combination starch, Kever Starch Co.
WHEEL, starch, A. E. Staley Mfg. Co.
WHEEL-EZY, hand truck, Rapids-Standard Co., Inc.
WHEELVEYOR, wheel conveyor, Mechanical Handling Systems Inc.
WHIRL-SORT, sorting reel, Franklin Mfg. Co.
WHIRLWIND, extractor, Fletcher Works, Inc.
WHITE CAP, drycleaning soap, Midland Color & Chemical Co.
WHITE CAP, laundry blue, Beach Soap Co.
WHITEHOUSE, nylon cover cloth, flannel, press covers, sewing thread, flatwork ironer cord and tape, Whitehouse Nylon Products
WHITE HOUSE, wheat starch, Huron Milling Co.
WHITEHOUSE BLUE STREAK, nylon nets, Whitehouse Nylon Products
WHITEHOUSE ROK RIB, nylon nets, Whitehouse Nylon Products

WHITEINT, fluorescent dye addition to soaps, Carlton Chemical Co., Inc.
WHITE KING, toilet soap, coco almond soap, coco lemon soap, Los Angeles Soap Co.
WHITE LABEL, medium-titer neutral soap, Beach Soap Co.
WHITE RIBBON, tallow soap chips and powder, Swift & Co., Inc.
WHITE STAR, drycleaning paste soap, R. H. Street & Co., Inc.
WHITEEX, blueing, Park & Tilford
WHITLOCK, preheaters, Whitlock Mfg. Co.
WHITSON SYSTEM, boiler return systems, Healy-Ruff Co.
WICK, tapes and braids, Wick Narrow Fabrics Co.
WILL-BURT, coal stokers, oil burners, gas burners, Will-Burt Co.
WILLIAMS, laundry and drycleaning machinery, Williams Laundry Machinery Co., Inc.
WILLIAMS & DAVIS, boilers, condensation return systems, return units, boiler feed-water systems, Williams & Davis Boiler & Welding Co., Inc.
WILLS-MILCO, rug beater, A. O. Miller Co.
WINDO, cedarized storage bag, Lincoln Bag Co.
WING CLAMP, collar support, Para-Lux Products Co.
WING-GARDS, hanger shields, Para-Lux Products Co.
WING-LOCK, collar support, Para-Lux Products Co.
WING-ROLL, collar support, Para-Lux Products Co.
WINKLER, stokers, U. S. Machine Corp.
WIRI "O" MATIC, extractor, Gross Machinery Co., Inc.
WIZ, folding machine, Time Savers, Inc.
WIZARD, extractors, Hammond Laundry-Cleaning Machinery Co.
WIZARD, laundry net, Southern Mills, Inc.
WOLF, electric cloth cutters, fabric drills, rag cutters, Wolf Machine Co.
WOLKIND, formal-wear rental service, Wolkind Bros.
WOLVERINE, synthetic drycleaning machine, Wolverine Sales Co.
WONDERFOLD, sport shirt protectors, Sutherland Paper Co.
WONDER WASH O. D., wetcleaning detergent, Wonder Wash Corp.
WONDER WEAVERS, reweaving damaged clothing, Wonder Weavers
WONDER WORKER, sewing machine, U. S. Blind Stitch Machine Corp.
WONDRESS, flatwork ironer pads, Southern Mills, Inc.
WOOL, soap, Swift & Co.
WOOLZ, a specific woolen soap, Caled Products Co., Inc.
WORKHORSE, rug scrubber, Certified Chemical & Equipment Co.
WORK SAVERS, drycleaning truck, Time Savers, Inc.
WORTHITE, pumps, Worthington Pump & Machinery Corp.
WOVERITE, cover cloth, padding, Lewis National Corp.
WRAP-O-MATIC, automatic paper cutting and wrapping machine, Rosenthal Mfg. Co.
WULPRESS, wool press cloth and surface cloth, nylon and wool press and surface cloth, Arms Textile Mfg. Co.
WYANDOTTE, detergents, soaps, Wyandotte Chemicals Corp.
WYTEN, soap builder, Turco Products, Inc.
WYTINO, stripper, Kuehne Chemical Co.

X

X. L., built synthetic detergent, Armour & Co.
XANNO, indelible ink (no heat), Applegate Chemical Co.
X-PANDO, collar supports, Time Savers, Inc.
X-30, rag and overall detergent, George Stearns Chemical & Mfg. Co.
XTRA, nylon press cloth, X. S. Smith, Inc.

Y

YA-DE, mothproof, Crossland Mfg. Co., Inc.
YARMOR, pine oil, Hercules Powder Co.
YARWAY GUN PAKT, expansion joints, Yarnall-Waring Co.

YARWAY HI-LO ALARM, water columns, Yarnall-Waring Co.
YARWAY HI-LO-GRAPIH, liquid level recorder, Yarnall-Waring Co.
YARWAY IMPULSE, steam traps, Yarnall-Waring Co.
YARWAY INVOLUTE, spray nozzles, Yarnall-Waring Co.
YARWAY SEATLESS, blow-off valves, Yarnall-Waring Co.
YARWAY SESURE INCLINED, water gauges, Yarnall-Waring Co.
YELLOWGO, liquid dye-reducing agent, A. L. Wilson Chemical Co.
YELLOW REMOVER, dye stripper, Patek & Co.
YELLOW SPECIFIC NO. 13, liquid stripper, Carman & Co., Inc.
YELO-LIQUID COLD STRIPPER, stain remover and stripper, H. Kohnstamm & Co., Inc.
YORK-HEAT, burners, generators, York-Shipley, Inc.

Z

Z-P, silk drycleaning soap for chlorinated solvent systems, Caled Products Co., Inc.
Z-AB, drycleaning press, Prosperity Co., Inc.
ZANZIBAR-CARBON, blues, curtain colors, indelible ink, indelible ink eradicator and thinner, B. Heller & Co.
ZARMITE, foot-power laundry presses, American Laundry Machinery Co.
ZARMO, foot-power laundry presses, American Laundry Machinery Co.
ZARMOLETTE, air-driven laundry presses, American Laundry Machinery Co.
ZEETONE, paint remover, Riverside Mfg. Co.
ZELAN, durable water repellent, E. I. du Pont de Nemours & Co., Inc.
ZELCO, press and ironer pads, padding, press covers, Nathan Zellermayer & Co.
ZELTEX, press and ironer pads, padding, press covers, Nathan Zellermayer & Co.
ZENITH, electric timers, Zenith Electric Co.
ZENITH, extractors, filters, washers, Billingsly Machinery Co.
ZEOLITE, boiler feed-water treatment, National Chemical Sales Co., Laboratory, Inc.
ZEPHYR, extractor, ironer, washer, Zephyr Laundry Machinery Co.
ZERO, combination water softener and iron removers, neutralizers, Zero Water Softener Mfg. Co.
ZEROSOFT, water softener, iron remover, filter, zeolite, Zero Water Softener Mfg. Co.
ZEST, synthetic wetcleaning soap, Adco, Inc.
ZIG-ZAG, heat exchangers and reclaimers, David Stout & Sons
ZIP, Celanese curtain finisher, Hopkins Equipment Co.
ZIP, go-back conveyor, Time Savers, Inc.
ZIP-LUXOR, plastic storage bag side opening, Rassenfoss Bag Co., Inc.
ZIPOLA, lubricant, High Chemical Co.
ZIPON, leather finish, Keystone Aniline & Chemical Co., Inc.
ZIPPER-EASE, stainless lubricant, A. G. S. Co.
ZIPPO, wetcleaning detergent, Benda Products, Inc.
ZIP-R-FIX, tool kit for repairing zippers, Mars Tool Co.
ZIP STIK, ink remover, Keystone Aniline & Chemical Co., Inc.
ZOL, synthetic drycleaning solvent, Stauffer Chemical Co.
ZOLVIT, paint, oil and grease remover, Riverside Mfg. Co.
ZONE-AIR, leather reconditioning unit, American Laundry Machinery Co.
ZONE-AIR, laundry or drycleaning drying tumbler, American Laundry Machinery Co.
ZONEEX, chloroform substitute, Package Chemical Co., Inc.
ZORIC, garment cleaning system, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
Z-BAY, drycleaning detergent, Delan Co.
ZUCKERBERG, replacement collars and cuffs for white shirts, Zuckerberg Co.
ZUDS, sulphated compound for wetcleaning in salt or acid solutions, Caled Products Co., Inc.
ZURON, petroleum solvent drycleaning unit, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
ZYME, enzymic desizing and cleaning compound, Carman & Co., Inc.
ZYMO, enzymic spot remover, Keystone Aniline & Chemical Co., Inc.

Manufacturers

**equipment and supply producers
listed alphabetically
with their mailing addresses**

A

A. A. A. Weaving Service, 1182 Madison Ave., New York 25, N. Y.
A. A. Laundry Machinery Co., 1110-12 S. Kedzie Ave., Chicago 12, Ill.
A-B Novelty Corp., 519 30th St., Union City, N. J.
A & E Machinery Co., 3035 N. Pulaski Rd., Chicago 41, Ill.
A. G. S. Co., Muskegon, Mich.
Academy Hanger Co., Inc., 177 E. 123rd St., New York 35, N. Y.
Academy Paper Box Co., 3604 Park Ave., New York 56, N. Y.
Ace Cabinet Corp., 1457 Broadway, New York 36, N. Y.
Ace Fastener Corp., 3415 N. Ashland Ave., Chicago 13, Ill.
Ace Hose & Rubber Co., 761 W. Van Buren St., Chicago 7, Ill.
Ace Weaving Service, 416 Madison Ave., New York 17, N. Y.
Acker, W. M. Organization, Inc., 3167 Fulton Rd., Cleveland 9, Ohio
Acme Dye House, Inc., 7606 Carnegie Ave., Cleveland 3, Ohio
Acme Hatters Supply Co., 104-106 Bleeker St., New York 12, N. Y.
Acme Industrial Compounds Corp., 625 S. Goodman, Rochester 7, N. Y.
Acme Soap Co., 251 Third St., Cambridge 42, Mass.
Adams Weaving Co., 1123 Republic Bldg., Chicago 4, Ill.
Adco, Inc., 900-928 W. Main St., Sedalia, Mo.
Addressograph-Multigraph Corp., 1200 Babbitt Rd., Cleveland 17, Ohio
Adell Chemical Co., 176 Race St., Holyoke, Mass.
Adhesive Products Corp., 1660 Boone Ave., New York 60, N. Y.
Adrian Research & Chemical Co., Inc., Elm & Pennsylvania Aves, North Wales, Pa.
Advance Floor Machine Co., 2613 S.E. Fourth St., Minneapolis 14, Minn.
Aerco Corp., 214 Lafayette Pl., Englewood, N. J.
Aercovent Fan Co., 700 E. Ash St., Piqua, Ohio
Aetna Felt Co., Inc., 204 Centre St., New York 4, N. Y.
Air Compressors & Motors Inc., 13710 Aspinwall Ave., Cleveland, Ohio
Ald, Inc., 3549 N. Clark St., Chicago 13, Ill.
Alumite Div., Stewart Warner Corp., 1826 Diversey Parkway, Chicago 31, Ill.
Alert Boiler & Mfg. Co., 9661 Robson St., Detroit 28, Mich.
Allcraft Mfg. Co., 27 Hayward St., Cambridge 42, Mass.
Allegheny-Ladlum Steel Corp., 2020 Oliver Bldg., Pittsburgh 22, Pa.
Allen, R. C., Business Machines, Inc., 678 Front St., N. W., Grand Rapids, Mich.
Allen & Vickers, Inc., 495 Glen Iris Dr., N. E., Atlanta 5, Ga.
Allied Equipment Co., 7671 Rogers Ave., Chicago 26, Ill.
Allied Laundry Machinery Corp., 256 Wythe Ave., Brooklyn, N. Y.
Allied Printing & Stationery Co., Inc., 270 Lafayette St., New York 12, N. Y.
All-in-One Mfg. & Supply Co., 1408 Cook St., Houston 6, Texas
Allis-Chalmers Mfg. Co., 1126 S. 70th St., Milwaukee 1, Wisc.
Allis, Louis, Co., 427 E. Stewart St., Milwaukee 7, Wisc.
Almore Dye House, 4412-4424 Wentworth Ave., Chicago 9, Ill.
Alrose Chemical Co., 180 Mill St., P.O. Box 1294, Providence, R. I.
Aluminum Co. of America, 640 Gulf Bldg., Pittsburgh 19, Pa.
Ambassador Continuous Towel Cabinet Co., 125 N. Mission Rd., Los Angeles 33, Cal.
Amber Mfg. Co., 607 S. Union Ave., Los Angeles 14, Cal.
Amber School of Weaving, 611 Main St., Buffalo 3, N. Y.

Americaine, Inc., 1316 Sherman Ave., Evanston, Ill.
American Air Compressor Corp., 48th & Dell Ave., North Bergen, N. J.
American Alcolac Corp., 3450 Fairfield Rd., Baltimore 26, Md.
American Aniline Products, Inc., 820 S. Clinton St., Chicago 7, Ill.
American Associated Cos., Inc., 451-461 Stephens St., S.W., Atlanta, Ga.
American Brake Shoe Co., Kellogg Div., 97 Humboldt St., Rochester 9, N. Y.
American Brass Co., American Metal Hose Branch, 698 S. Main St., Waterbury 20, Conn.
American Cleaners Equipment Co., Div. American Laundry Machinery Co., Ross & Section Aves., Cincinnati 12, Ohio
American Coal Burner & Wood Stoker Corp., 18 E. Erie St., Chicago 11, Ill.
American Coat Hanger Mfg. & Specialty Co., 3917-21 W. Jefferson Blvd., Los Angeles 16, Cal.
American Colloid Co., 363 W. Superior St., Chicago 10, Ill.
American Coolair Corp., Box 2300, Jacksonville 3, Fla.
American District Steam Co., 455 Bryant St., North Tonawanda, N. Y.
American Dyeing & Cleaning Co., 4110 Worth St., Dallas 1, Texas
American Electrical Heater Co., 6110 Cass Ave., Detroit 2, Mich.
American Engineering Co., Aramingo Ave. & Cumberland St., Philadelphia 25, Pa.
American Felt Co., Glenville, Conn.
American Hair & Felt Co., 1828 Merchandise Mart, Chicago 54, Ill.
American Hatters Supplies, Inc., 9 E. Harrison St., Chicago 5, Ill.
American Institute of Laundering, Joliet, Ill.
American-La France-Foamite Corp., 100 E. La France St., Elmira, N. Y.
American Laundry Machinery Co., Norwood Station, Cincinnati 12, Ohio
American Mineral Spirits Co., 230 N. Michigan Ave., Chicago, Ill.
American Monorail Co., 13107 Athens Ave., Cleveland 7, Ohio
American Mothproofing Co., 711 N. Euclid Ave., St. Louis 8, Mo.
American Numbering Machine Co., Atlantic & Shepherd Aves., Brooklyn 8, N. Y.
American Pressboard Co., 110 W. 30th St., New York 1, N. Y.
American Shirt Co., 1123 Broadway, New York 10, N. Y.
American Sterilizer Co., 1230 Plum St., Erie, Pa.
American Telephone & Telegraph Co., 195 Broadway, New York 7, N. Y.
American Textile Weaving Co., 5 N. Wabash, Chicago, Ill.
American Water Softener Co., Fourth & Lehigh, Philadelphia 33, Pa.
American Wire Form Corp., 265 Grant Ave., Jersey City 5, N. J.
American Writing Ink Co., Inc., 15 Hathaway St., Boston 10, Mass.
Ames Iron Works, E. Second & Cayuga Sts., Oswego, N. Y.
Analytical Measurement, Inc., 585 Main St., Chatham, N. Y.
Anderson, Glenn L., 3887 Bushnell Rd., Cleveland 18, Ohio
Anderson Box & Basket Co., Inc., Henderson, Ky.
Anderson Specialty Mfg. Co., 5 Hunt Rd., Jamestown, N. Y.
Anderson, V. D., 1935 W. 96th St., Cleveland 2, Ohio
Anderson-Prichard Oil Corp., Apco Tower, Oklahoma City 2, Okla.
Andreas, M., 156 E. 88th St., New York 28, N. Y.
Andrew Paper Box & Bag Corp., 845 Gates Ave., Brooklyn 23, N. Y.
Andrew Technical Service, 11 E. Delaware Pl., Chicago 11, Ill.
Angelica Uniform Co., 1419-29 Olive St., St. Louis 3, Mo.
Angle Steel, Inc., Acorn St., Plainwell, Mich.
Ansul Chemical Co., Marinette, Wisc.

Anthony Co., 47-33 Fifth St., Long Island City 1, N. Y.
Apex Chemical Co., Inc., 225 W. 34th St., New York 1, N. Y.
Applegate Chemical Co., 5632 Harper Ave., Chicago 37, Ill.
Aqua-Sec Corp., 1450 Broadway, New York 18, N. Y.
Arabol Mfg. Co., 110 E. 42nd St., New York 17, N. Y.
Armite Laboratories, 6609 Broad St., Los Angeles 1, Cal.
Armour & Co., Industrial Soap Div., 1355 W. 31st St., Chicago 9, Ill.
Arms Textile Mfg. Co., 51 Madison Ave., New York 10, N. Y.
Armstrong Hart Co., 382 Peachtree, N. E., Atlanta 3, Ga.
Armstrong Machine Works, 832 Maple St., Three Rivers, Mich.
Arnold-Hoffman & Co., Inc., 55 Canal St., Providence, R. I.
Aroscent, Inc., P. O. Box 269, Dobbs Ferry, N. Y.
Arrow Fastener Co., Inc., 1 Junius St., Brooklyn 12, N. Y.
Arrow Mfg. Co., Inc., 2924 Terrace St., Kansas City 8, Mo.
Arrow Tank Co., Inc., 16 Barnett St., Buffalo 15, N. Y.
Ashton Valve Co., 161 First St., Cambridge 39, Mass.
Asselin, Victor, Fur Co., 412 Eighth Ave., New York 1, N. Y.
Associated Crib Diapers Cos., 4747 N. Damen Ave., Chicago 25, Ill.
Atlanta Brush Co., Box 1358, Atlanta 1, Ga.
Atlanta Paper Co., Marietta Ave., Atlanta, Ga.
Atlas Body Co., 4150 E. Thompson St., Philadelphia 37, Pa.
Atlas Powder Co., Industrial Chemicals Dept., Wilmington 99, Del.
Atlas Steel Products, Inc., 1160 Chico Ave., El Monte, Cal.
Attapulugus Clay Co., 210 W. Washington Sq., Philadelphia 5, Pa.
Aurora Mfg. Co., 74 Wythe Ave., Brooklyn, N. Y.
Autographic Register Co., Seventh & Park, Hoboken, N. J.
Automatic Paper Box Corp., 1011-25 S. California Ave., Chicago, Ill.
Automatic (Sussman) Steam Products Corp., 140 W. 31st St., New York, N. Y.
Automatic Temperature Control Co., Inc., Philadelphia 44, Pa.
Automobile Insurance Co., 151 Farmington Ave., Hartford, Conn.

B

B & C Engineering Co., 2706 Chestnut St., Toledo, Ohio
B & G Machinery Co., 2432 Southeastern Ave., Indianapolis 1, Ind.
Bader, C. L., Co. Inc., 110 N. 10th St., Fort Smith, Ark.
Baehr Laundry Machine Co., 29 Calumet St., Newark 3, N. J.
Bahson Co., 1001 S. Marshall St., Winston-Salem, N. C.
Bailey Meter Co., 1050 Ivanhoe Rd., Cleveland 10, Ohio
Bailey, Prihoda & Co., 326 Kalamazoo Ave., Kalamazoo 11, Mich.
Baker, J. T., Chemical Co., N. Broad St., Phillipsburg, N. J.
Baltimore Specialties Co., 419 W. Baltimore St., Baltimore 1, Md.
Band Box Corp., 2301 Chouteau Ave., St. Louis 3, Mo.
Barco Mfg. Co., 1801-15 Winnemac Ave., Chicago 40, Ill.
Barreled Sunlight Paint Co., 10 E. Dudley St., Providence 1, R. I.
Barrett Div., Allied Chemical & Dye Corp., 40 Rector St., New York 6, N. Y.
Bart, Stuart, Inc., 114 E. 32nd St., New York 16, N. Y.

- Bartlett Label Co.**, 2135 Portage St., Kalamazoo 29F, Mich.
- Bassick Co.**, 38 Austin St., Bridgeport 2, Conn.
- Bauer, Samuel, & Sons, Inc.**, 143 W. 29th St., New York, N. Y.
- Beach Soap Co.**, 125 Lawrence St., Lawrence, Mass.
- Beaver Pipe Tools, Inc.**, 310 Dana Ave., Warren, Ohio
- Beckman Instruments, Inc.**, 820 Madison St., South Pasadena 60, Cal.
- Behrstock, L. Co.**, 1708 S. State St., Chicago 16, Ill.
- Belco Industrial Equipment Div., Inc.**, 50 Iowa Ave., Paterson 3, N. J.
- Belmont Packing & Rubber Co., Inc.**, Butler & Sepviva Sts., Philadelphia 37, Pa.
- Belnap & Thompson, Inc.**, 271 Madison Ave., New York, N. Y.
- Bemis Bro. Bag Co.**, 408 Pine St., St. Louis 2, Mo.
- Benda Products, Inc.**, 120 Potter St., Cambridge 42, Mass.
- Bendix Aviation Corp., Flexible Hose Div.**, U. S. Route 6, Teterboro, N. J.
- Benwall Mfg. Co., Inc.**, 2859 Atlantic Ave., Brooklyn 7, N. Y.
- Bergen Machine Tool Co., Inc., Radne Unit Springs Div.**, 189 Franklin Ave., Nutley 10, N. J.
- Berger Damage Reweaving Co.**, 666 Madison Ave., New York 21, N. Y.
- Berger Mfg. Div., Republic Steel Corp.**, 1038 Belden Ave., N. E., Canton 5, Ohio
- Berlou Mfg. Co.**, 35 Blaine Ave., Marion, Ohio
- Bersworth Chemical Co.**, Waverly St., Framingham, Mass.
- Bertsch & Co.**, Cambridge City, Ind.
- Besler Corp.**, 4053 Harlan St., Emeryville 8, Cal.
- Best Forms Co.**, 10 Grace St., P. O. Box 736, Wilmington, N. C.
- Bestway Shine Removal Co., Inc.**, 416 Madison Ave., New York 17, N. Y.
- Bete Fog Nozzle, Inc.**, 85 Pierce St., Greenfield, Mass.
- Better Packages, Inc.**, 255 Canal St., Shelton, Conn.
- Big Ben Petroleum Products Co.**, 624 S. Michigan Ave., Chicago 5, Ill.
- Bigelow Chemical Products Corp.**, 98 Bigelow St., Quincy 69, Mass.
- Bigelow-Sanford Carpet Co.**, 136 Madison Ave., New York 16, N. Y.
- Bildwell Manufacturers**, 315 E. Liberty St., Ann Arbor, Mich.
- Billing's Machinery Co.**, 4316-4404 Main St., Dallas, Texas
- Bimberg, Ben, & Co., Inc.**, 373 Broadway, New York 10, N. Y.
- Binks Mfg. Co.**, 3114 W. Carroll Ave., Chicago 12, Ill.
- Bishop, Barry, Co.**, 103 E. 125th St., New York 35, N. Y.
- Bishop, G. H., Co.**, 1600 Foster Ave., Evanston, Ill.
- Blackmer Pump Co.**, 1809 Century Ave., S. W., Grand Rapids 7, Mich.
- Blau, M., Mfg. Co.**, P. O. Box 269, Altamonte Springs, Fla.
- Blenco Co.**, 215 Havemeyer St., Brooklyn 11, N. Y.
- Bock Laundry Machine Co.**, Toledo Factories Bldg., Toledo 2, Ohio
- Boiler Engineering & Supply Co.**, 330 Fourth Ave., Flushingville, Pa.
- Bond Foundry & Machine Co.**, Manheim, Pa.
- Bond Street Bag & Paper Corp.**, 90 First St., Brooklyn 31, N. Y.
- Bonis Bros. Fur Machinery Corp.**, 312 Seventh Ave., New York 1, N. Y.
- Bonn, F. H., Co.**, 619 W. Fulton St., Chicago 6, Ill.
- Bostitch, Inc.**, 574 Mechanic St., Westerly, R. I.
- Boston Clip & Tag Co.**, 48 Grove St., Somerville, Mass.
- Bostwick-Batterson Co.**, 315-23 N. 12th St., Philadelphia 17, Pa.
- Bostwick Laboratories**, 706 Bostwick Ave., Bridgeport 5, Conn.
- Bowser, Inc.**, 1312 E. Creighton Ave., Fort Wayne 6, Ind.
- Brabrook, A. N.**, 424 Madison Ave., New York 17, N. Y.
- Brady Conveyors Corp.**, 20 W. Jackson Blvd., Chicago 4, Ill.
- Braun Brush Co.**, 8833 78th St., Woodhaven 21, N. Y.
- Brady Engineering Corp.**, 3103 N. 27th St., Milwaukee 16, Wisc.
- Brenco Co., Plattville, Wisc.**
- Bresler Engineering Service**, 509 N. Fourth Ave., P. O. Box 111, Oregon 1, Ill.
- Breuer Electric Mfg. Co.**, 5100 N. Ravenswood Ave., Chicago 40, Ill.
- Bridgeport Brass Co.**, 30 Grand St., Bridgeport 2, Conn.
- Brillo Mfg. Co., Inc.**, 60 John St., Brooklyn 1, N. Y.
- Bristol Co.**, Waterbury 91, Conn.
- Brooks, Alfred J.**, 184 Dent St., West Roxbury, Boston, Mass.
- Brownell Co.**, 450 N. Findlay St., Dayton 1, Ohio
- Brumber & Zinnel**, 6211 N. Bay Ridge Ave., Milwaukee, Wisc.
- Bruner Corp.**, 2318 N. 30th St., Milwaukee 45, Wisc.
- Brunner Mfg. Co.**, 1821 Broad St., Utica 1, N. Y.
- Brunt Mfg. Co.**, 64 S. Division St., Buffalo 3, N. Y.
- Bryan Steam Corp.**, Chili Pike, Peru, Ind.
- Buffalo Meter Co.**, 2917 Main St., Buffalo 14, N. Y.
- Bunn, B. H., Co.**, 7605 Vincennes Ave., Chicago 20, Ill.
- Burcott Mills**, 616 W. Fulton St., Chicago 6, Ill.
- Burd Mfg. Co.**, 1897 Columbus Ave., Springfield 3, Mass.
- Burgess-Berliner Associates**, 214 S. First St., St. Charles, Ill.
- Burkstock Specialties Co.**, 14019 Wyoming Ave., Detroit 4, Mich.
- Burroughs Adding Machine Co.**, 6071 Second Ave., Detroit 32, Mich.
- Bussard, R. D., & Son**, 505 E. Fifth Ave., Albany, Ore.
- Butler Engineering Co.**, 2612 Rousseau St., New Orleans 13, La.
- Butler Mfg. Co.**, 7400 E. 13th St., Kansas City 3E, Mo.
- C & H Electric Co.**, 436 W. Juneau Ave., Milwaukee 3, Wisc.
- C. O. D. Cleaning & Dyeing Co.**, Davenport, Iowa
- Cade Paper & Bag Corp.**, 55 Sedgewick St., Brooklyn 2, N. Y.
- Caldwell, W. E., Co.**, 2050 Brook St., Louisville, Ky.
- Caled Products Co., Inc.**, 4200 Bladensburg Blvd., Brentwood, Md.
- Calgon, Inc.**, Hagan Bldg., Pittsburgh, Pa.
- California Laundry Equipment Co.**, 2221 Union St., Oakland, Cal.
- Callaway Mills, Inc.**, 295 Fifth Ave., New York 16, N. Y.
- Cambridge Instrument Co., Inc.**, 3030 Grand Central Terminal, New York, N. Y.
- Campbell Box & Tag Co.**, Main & Guide Sts., South Bend 23, Ind.
- Campbell, J. A., Co.**, 645 E. Wardlow Rd., Long Beach 7, Cal.
- Canton Stoker Corp.**, 1200 Andrew Pl., Canton 1, Ohio
- Canvas Specialty Co.**, P. O. Box 937, Hartford 1, Conn.
- Capital Poster Service, Inc.**, 307 Canal St., New York, N. Y.
- Cappel, MacDonald & Co.**, 30 E. 60th St., New York, N. Y.
- Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.**, 30 E. 42nd St., New York 17, N. Y.
- Carey, Philip, Mfg. Co.**, Lockland St., Cincinnati 15, Ohio
- Carey Salt Co.**, Carey Bldg., Hutchinson, Kans.
- Carlton Chemical Co., Inc.**, 33 Commerce St., New York 14, N. Y.
- Carlyle Rubber Co., Inc.**, 64 Park Pl., New York 7, N. Y.
- Carman & Co., Inc.**, 70 Summit St., Brooklyn 31, N. Y.
- Carnegie-Illinois Steel Corp.**, Carnegie Bldg., Pittsburgh 30, Pa.
- Carovan Div., Universal Sales, Inc.**, Delaware, Ohio
- Carrier Corp.**, 300 S. Geddes St., Syracuse, N. Y.
- Carson Textile Co., Inc.**, 2401 S. Swanson St., Philadelphia, Pa.
- Carter's Ink Co.**, 239 First St., Cambridge 42, Mass.
- Carver Pump Co.**, Hershey & Green Sts., Muscatine, Iowa
- Cash, A. W., Co.**, P. O. Box 551, Decatur, Ill.
- Cash, J. & J., Inc.**, Chestnut St., South Norwalk, Conn.
- Caterpillar Tractor Co.**, 350 Fifth Ave., New York, N. Y.
- Canthen & Stocum, Inc.**, 1218 N. Capitol St., Washington 2, D. C.
- Central Brass Mfg. Co.**, 2950 E. 55th St., Cleveland 4, Ohio
- Central Dyeing Co.**, 1550 Dickson Ave., Scranton 9, Pa.
- Centize**, 2224 63rd St., Kenosha, Wisc.
- Century Electric Co.**, 1806 Pine St., St. Louis 3, Mo.
- Century Paper Products Co.**, 333 N. Francisco, Chicago, Ill.
- Certified Chemical & Equipment Co.**, 5366 St. Clair Ave., Cleveland 3, Ohio
- Chace Valve Div., American Laundry Machinery Co.**, Norwood Station, Cincinnati 12, Ohio
- Challenge Marking Tag Co.**, 3917-21 W. Jefferson Blvd., Los Angeles 16, Cal.
- Chambers Extractor Co.**, 201 Embarcadero, San Francisco 11, Cal.
- Champion Implement Corp.**, 45 W. 45th St., New York 19, N. Y.
- Chandler Machine Co.**, West St., Ayer, Mass.
- Charlotte Leather Belting Co.**, 314-B E. Sixth St., Charlotte 1, N. C.
- Chase Brass & Copper Co.**, 236 Grand St., Waterbury 91, Conn.
- Chatillon, John, & Sons**, 89 Cliff St., New York 38, N. Y.
- Checking System Co.**, 515 S. Walker St., Columbia, S. C.
- Chek Products, Inc.**, 31 Nassau Pl., East Orange, N. J.
- Chelsea Fan & Blower Co.**, 639 South Ave., Plainfield, N. J.
- Chevlin, Samuel, Co., Inc.**, 2721 N. Halsted St., Chicago 4, Ill.
- Chevrolet Motor Div., General Motors Corp.**, Detroit 2, Mich.
- Chicago Automatic Stoker Co.**, 14 N. Clinton St., Chicago 6, Ill.
- Chicago Driver Co.**, 2210 N. Pulaski Rd., Chicago 39, Ill.
- Chicago Pearl Button Co.**, 216 W. Jackson Blvd., Chicago 6, Ill.
- Chicago Pump Co.**, 2300 Wolfram St., Chicago 18, Ill.
- Chicago Used & New Laundry Equipment Co.**, 3125 W. Lake St., Chicago 12, Ill.
- Chief Mfg. Co., Inc.**, 806 Beecher St., Indianapolis 7, Ind.
- Chisholm-Moore Hoist Corp.**, Fremont Ave., Tonawanda, N. Y.
- Chrisman, E. L., Co., Inc., Div. Fleetwood-Airflow**, 8255 Compton Ave., Los Angeles 1, Cal.
- Chrysler Corp., Airtemp Div.**, 1119 Leo St., Dayton, Ohio
- Chrysler Corp., Amplex Div.**, 6501 Harper Ave., Detroit 31, Mich.
- Cider Corp.**, 85 Franklin St., Jersey City 7, N. J.
- Cincinnati Marking Tag & Supply Mfg. Co.**, 12 E. Ninth St., Cincinnati 2, Ohio
- Cincinnati Repair Service**, 413 Race St., Cincinnati, Ohio
- Circle Pleating & Pattern Co., Ltd.**, 265 W. 40th St., New York 18, N. Y.
- Cissell, W. M., Mfg. Co., Inc.**, P. O. Box 1143, 831 S. First St., Louisville 3, Ky.
- Cisk, Sidney A.**, 12-21 30th Ave., Long Island City 2, N. Y.
- Clarage Fan Co.**, North & Porter Sts., Kalamazoo 16, Mich.
- Clark Mfg. Co.**, 1830 E. 38th St., Cleveland 14, Ohio
- Clayton Mfg. Co.**, 1363 N. Temple City Blvd., El Monte, Cal.
- Cleaners Hanger Co.**, 18140 James Couzens Highway, Detroit 35, Mich.
- Cleaners Sales & Equipment Corp.**, 201 Washington St., New York 7, N. Y.
- Cleaners Specialties Supplies Co.**, 6615 N. Fairfield Ave., Chicago 45, Ill.
- Clear View Packaging Co.**, 2636 S. Michigan Ave., Chicago 16, Ill.
- Cleaver-Brooks Co.**, 358 E. Keefe Ave., Milwaukee 12, Wisc.
- Cleveland Garment Hanger Co.**, 8205 Madison Ave., Cleveland 2, Ohio
- Cleveland Heater Co.**, 2310 Superior Ave., Cleveland, Ohio
- Cleveland Rug Cleaning Machinery Co.**, 5618 Hamlet Ave., Cleveland 4, Ohio
- Clinton Foods Inc.**, Clinton, Iowa
- Clinton Products Co.**, Clinton 7, Mich.
- Chipper Belt Lacer Co.**, 974 Front Ave., N.W., Grand Rapids 2, Mich.
- Clopay Corp.**, Clopay Sq., Cincinnati 14, Ohio
- Clorox Chemical Co.**, 850 42nd Ave., Oakland 1, Cal.
- Coates Electric Mfg. Co.**, 3610 First Ave. S., Seattle 4, Wash.
- Cochrane Corp.**, 3101 N. 17th St., Philadelphia 32, Pa.
- Coe Mfg. Co.**, Bank St., Painesville, Ohio
- Coffman Mfg. Corp.**, 531 Milwaukee Ave., Chicago 22, Ill.
- Cohen, Abe, & Son**, 1721 Ft. Myer Dr., Arlington, Va.
- Cole Leather Cleaners of America**, 1287 2nd Ave., New York 21, N. Y.
- Colgate-Palmolive-Peet Co.**, 105 Hudson St., Jersey City 2, N. J.
- College Chemical Co.**, 16 Brooks Park, Medford, Mass.
- Colonial Rubber Co.**, Ravenna, Ohio
- Colorado Tent & Awning Co.**, 1642 Lawrence St., Denver 2, Colo.
- Colson Corp.**, N. Cedar St., Elyria, Ohio
- Columbia Appliance Corp.**, 47-47 35th St., Long Island City, N. Y.
- Columbia Boiler Co.**, Pottstown, Pa.
- Columbia Laundry Machinery Co.**, 1313-19 E. 15th St., Kansas City, Mo.
- Columbia Needlework Supply Co., Gearhart Runner Knitter Co.**, 411 Sixth St., N.E., Washington 2, D. C.
- Columbia Sewing Machine Corp.**, 129-131 W. 22nd St., New York 3, N. Y.
- Columbia-Southern Chemical Corp.**, 632 Duquesne Way, Pittsburgh 22, Pa.
- Columbus Reweavers**, 7651 N. E. Second Ave., Miami, Fla.
- Combustion Control Corp.**, 77 Broadway, Cambridge 42, Mass.
- Combustioner Div., Steel Products Engineering Co.**, 1205 W. Columbia St., Springfield, Ohio
- Combustion Engineering Co., Inc.**, 200 Madison Ave., New York, N. Y.
- Comee Co.**, 308 Ivy St., N. E., Atlanta 1, Ga.
- Commercial Dye Works**, 14 Roswell St., Roxbury 19, Mass.
- Commercial Investment Trust, Inc.**, 1 Park Ave., New York 16, N. Y.
- Commercial Tag Co.**, 187 Vanderbilt Ave., Brooklyn 5, N. Y.
- Conce, Engineering Works, Div. H. D. Conkey & Co.**, 1900 Orange St., Mendota, Ill.
- Concord Chemical Co., Moorestown, N. J.**
- Conrad Embroidery Co.**, 523 30th St., Union City, N. J.
- Con-Secu-Tag, Inc.**, 27 Hooper St., Brooklyn 11, N. Y.

Continental Car-Na-Var Corp., P. O. Box 344, Brazil, Ind.
 Cook Machinery Sales Co., 4122 Commerce St., Dallas, Texas
 Cook's, Adam, Sons, Inc., 5 N. Stiles St., Linden, N. J.
 Coolidge, John E., Co., 2508 W. Slauson Ave., Los Angeles 43, Cal.
 Cooper-Bessmer Corp., N. Sandusky St., Mt. Vernon, Ohio
 Cooper, H. P., Co., 308-10 S. Green St., Chicago 7, Ill.
 Cooper, T. G., & Co., Inc., Cedar & Venango Sts., Philadelphia 6, Pa.
 Cornell Belting Co., 440 N. Wells St., Chicago 10, Ill.
 Cornell Paperboard Products Co., Milwaukee 1, Wisc.
 C-O-Two, U. S. Highway 1, Newark 1, N. J.
 Cowles Chemical Co., 7016 Euclid Ave., Cleveland 3, Ohio
 Cramer, R. W., & Co., Inc., Centerbrook, Conn.
 Crane Co., 836 S. Michigan Ave., Chicago 5, Ill.
 Cravanette Co., U. S. A., Eighth & Madison Sts., Hoboken, N. J.
 Crawford Fitting Co., 884 E. 140th St., Cleveland, Ohio
 Crescent Belt Fastener Co., 480 Lexington Ave., New York 17, N. Y.
 Crewdon Co., 360 E. Grand Ave., Chicago 11, Ill.
 Crocker-Wheeler Electric Mfg. Co., Div. Joshua Hendy Iron Works, Ampere, N. J.
 Crosby Steam Gauge & Valve Co., 10 Roland St., Boston 29, Mass.
 Crown Mfg. Co., 1025 N. Sixth St., St. Louis 1, Mo.
 Crucible Steel Co. of America, Henry W. Oliver Bldg., Pittsburgh 30, Pa.
 Crystalite Co., Inc., 283 McKinley Ave., East Orange, N. J.
 Culligan Zeolite Co., 1810 Shermer Rd., Northbrook, Ill.
 Cummings-Landau Laundry Machinery Co., Inc., 305 Ten Eyck St., Brooklyn 6, N. Y.
 Cuno Engineering Corp., 80 S. Vine St., Meriden, Conn.
 Cuple-Hess Corp., 4175 N. Kingshighway Blvd., St. Louis 15, Mo.
 Curry, J. W., Co., 2615 Cummins St., Cincinnati 25, Ohio
 Curtis Mfg. Co., 1905 Kienlen Ave., St. Louis 20, Mo.
 Custom Engineering Co., 3138 W. Slauson Ave., Los Angeles 43, Cal.
 Custom Fur Service, Inc., Second Ave. at 109th St., Troy, N. Y.
 Cutler-Hammer, Inc., 315 N. 12th St., Milwaukee 1, Wisc.
 Cyclotherm Div., U. S. Radiator Corp., 157 E. First St., Oswego, N. Y.

D

Dahlberg Machinery Co., 918 E. Superior St., Duluth, Minn.
 Dakota Chemical Co., Aberdeen, S. D.
 Daniels, C. R., Inc., 4900 Wetheredville Rd., Baltimore 16, Md.
 Darco Dept. (Atlas Powder Co.), 60 E. 42nd St., New York 17, N. Y.
 Darnell Corp., Ltd., 12000 Woodruff Ave., Downey, Cal.
 Davies-Young Soap Co., Box 995, Dayton 1, Ohio
 Davis Emergency Equipment Co., Inc., 45 Hal-leck St., Newark 4, N. J.
 Davis Engineering Corp., 1604 E. Grand St., Elizabeth 4, N. J.
 Davis, K. H., Mfg. Corp., 2415 E. 23rd St., Los Angeles 11, Cal.
 Davis Mills, Inc., 211 Grant Ave., East Newark, N. J.
 Davis Regulator Co., 2663 W. 25th Pl., Chicago 8, Ill.
 Davis Specialties, Inc., 618 S. Kolmar Ave., Chicago 24, Ill.
 Davis-Weil Mfg. Co., Inc., 931 S. Front St., Memphis 3, Tenn.
 Dean Hill Pump Co., 4000 E. 16th St., Indianapolis 7, Ind.
 DeBothezat Fans Div., American Machine & Metals, Inc., East Moline, Ill.
 Decatur Pump Co., 2750 Nelson Pk. Rd., Decatur 70, Ill.
 Deep Back Oil Corp., 135 N. Clark St., Chicago 90, Ill.
 Defender Instrument & Regulator Co., 815 Clark Ave., St. Louis 2, Mo.
 Dejur Electric Works, 124 Blecker St., New York 12, N. Y.
 Delan Co., 421 E. Fourth South St., Salt Lake City 2, Utah
 De Laval Steam Turbine Co., 853 Nottingham Way, Trenton 2, N. J.
 Delray School of Spotting Instruction, 3029 Fairfield Ave., Cincinnati, Ohio
 De Kalb Commercial Body Corp., De Kalb, Ill.
 Deming Co., Salem, Ohio
 Dennison Mfg. Co., 300 Howard St., Framingham, Mass.
 Denominator Co., 261 Broadway, New York, N. Y.

D'Este Div., Kaye & McDonald, Inc., 11-15 Central Ave., West Orange, N. J.
 Detecote Scales, Inc., 540 Park Ave., Brooklyn 5, N. Y.
 Detex Watchclock Corp., 76 Varick St., New York 13, N. Y.
 Detrex Corp., Box 501, Detroit 32, Mich.
 Detroit Belt Lacer Co., 3951 A St., Detroit 16, Mich.
 Detroit Stoker Co., General Motors Bldg., Detroit, Mich.
 Devere Co., 2000-2012 Clark St., Racine, Wisc.
 DeVibiss Co., 300 Phillips Ave., Toledo 1, Ohio
 Devoe & Reynolds Co., Inc., 44th St. & First Ave., New York, N. Y.
 Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14, Ohio
 Diamond Chain Co., Inc., 402 Kentucky Ave., Dept. 442, Indianapolis 7, Ind.
 Diamond Metal Products Co., 406 Market St., St. Louis 2, Mo.
 Diamond T Motor Co., 4401 W. 26th St., Chicago 23, Ill.
 Dewey-Shepard Boiler Co., 1311 N. Capital Ave., Indianapolis 2, Ind.
 Dicalite Div., Great Lakes Carbon Corp., 18 E. 48th St., New York 17, N. Y.
 Dico Co., 200 S. W. 16th St., Des Moines 5, Iowa
 Diehl Mfg. Co., Electrical Div., Singer Mfg. Co., 1136 Funderne Ave., Somerville, N. J.
 Diem & Wing Paper Co., Gilbert Ave., Viaduct, Cincinnati 2, Ohio
 Dipcraft Mfg. Co., 1238 Voskamp St., Pittsburgh 12, Pa.
 Display Features, 3811 Plumstead Ave., Drexel 411, Pa.
 Dittmas Garment Dyeing Corp., 9528-30 Dittmas Ave., Brooklyn 12, N. Y.
 Divco Corp., 22000 Hoover Rd., P. O. Box 3807, Park Grove Station, Detroit 5, Mich.
 Dixie Hanger Co., Subsidiary United Paper Co., Inc., 1000 Chartres St., New Orleans 16, La.
 Dizo Co., 225 River Rd., Garfield, N. J.
 Dixon Boiler Works, 1625 Naud St., Los Angeles, Cal.
 Doctor Boiler, Inc., 4316 Main St., Dallas, Texas
 Dodge Div., Chrysler Corp., 7000 Jos. Campeau Ave., Detroit, Mich.
 Donnell Co., P. O. Box 84, St. Joseph, Mich.
 Doran Bros., Inc., 30 Shelter Rock Rd., Danbury, Conn.
 Dover Stamping Co., 80 Federal St., Boston 10, Mass.
 Dow Chemical Co., Midland, Mich.
 Draper-eze Equipment Co., 110-112 E. 6th St., Erie, Pa.
 Dravo Corp., 300 Penn Ave., Pittsburgh 22, Pa.
 Dresser Mfg. Div., Dresser Industries, Inc., 41 Fisher Ave., Bradford, Pa.
 Drew, E. F., & Co., Inc., 15 E. 26th St., New York 10, N. Y.
 Drelair Process Machinery Co., Penn & Ruan Sts., Philadelphia 24, Pa.
 Drico Industrial Corp., 29 Broadway, New York 6, N. Y.
 Dri Flo Mfg. Co., 642 E. Ten Mile Rd., Hazel Park, Mich.
 Driscoll Co., 251 Causeway St., Boston 14, Mass.
 Dryco Corp., 625 S. Kolmar Ave., Chicago 24, Ill.
 Dublute Collar Co., 200 Worth St., New York 13, N. Y.
 Duften Dye Works, 2213 County St., Portsmouth, Va.
 Du Pont de Nemours, E. I., & Co., Inc., Wilmington 98, Del.
 Durable Fibre Sample Case Co., 207 Wooster St., New York 12, N. Y.
 Durant Mfg. Co., 1925 N. Buffum St., Milwaukee 1, Wisc.
 Dwyer, F. W., Mfg. Co., 317 S. Western Ave., Chicago 12, Ill.
 Dytex Chemical Co., 140 India St., Providence 3, R. I.

E

Eagle Belting & Leather Co., 1401 Central Parkway, Cincinnati 14, Ohio
 Eastern Cyclone Conveyor System, Inc., 876 Van Houten Ave., Clifton, N. J.
 Eaton Chemical & Dye stuff Co., 1490 Franklin St., Detroit 7, Mich.
 Ebeo Mfg. Co., 401 W. Town St., Columbus, Ohio
 Eckert-Richmond Co., 206-08 W. 29th St., New York 1, N. Y.
 Eclipse Fuel Engineering Co., 1100 Buchanan St., Rockford, Ill.
 Eclipse Pioneer Div., Bendix Aviation Corp., Teterboro, N. J.
 Economy Hanger Machine & Equipment Co., 4324 N. 37th Ave., San Diego 5, Cal.
 Economy Specialty Co., 446 Second St., Jersey City 2, N. J.
 Economy Tablet & Paper Co., 667 W. 14th St., Chicago, Ill.
 Econo-Pak Register Co., 1337 E. 27th St., Kansas City 8, Mo.
 Edwards, Vincent, & Co., 342 Madison Ave., New York 17, N. Y.

Edward Valves, Inc., Subsidiary Rockwell Mfg. Co., 1200 W. 145th St., East Chicago, Ind.
 Egan Cotton Mills, 866 Murphy Ave., S.W., Atlanta 4, Ga.
 Egry Register Co., 429 E. Monument Ave., Dayton 2, Ohio
 Electric Auto-Lite Co., Instrument & Gauge Div., Champaign St., Toledo 1, Ohio
 Electric City Dyeing Co., 509 Glenn St., Scranton, Pa.
 Electric Steam Boiler Sales, Div. Wolf Co., Wolf Ave., Chambersburg, Pa.
 Electric Storage Battery Co., 42 S. 15th St., Philadelphia 2, Pa.
 Electro Chemical Engineering Co., Inc., P. O. Box 27, Bremen Station, St. Louis 7, Mo.
 Electro Lift, Inc., 30 Church St., New York 7, N. Y.
 Elgin Softener Corp., 150 N. Grove Ave., Elgin, Ill.
 Elliott Co., Crocker-Wheeler Div., Ampere, N. J.
 Elliott, Robert, Press, Inc., 345 Ludlow St., Stamford, Conn.
 Ellis Drier Co., 2444 N. Crawford Ave., Chicago 39, Ill.
 Emery Industries, Inc., 6801 Mariemont Ave., Cincinnati 2, Ohio
 Empire Cleaning & Dyeing Works, 622 Hollenbeck St., Rochester 5, N. Y.
 Empire Institute of Tailoring, 422 E. Fifth St., Hazleton, Pa.
 Endriss Chemicals, 940 N. Delaware Ave., Philadelphia 23, Pa.
 Equitable Paper Bag Co., Inc., 45-50 Van Dam St., Long Island City 1, N. Y.
 Erie City Iron Works, 1550 East Ave., Erie, Pa.
 Erie Enameling Co., 1920 Woodrow St., Erie, Pa.
 Ernest, F. P., Mfg. Co., 1112 St. Clair Ave., East St. Louis, Ill.
 Essential Chemicals Co., 2200 N. 32nd St., Milwaukee 8, Wisc.
 Eure & Co., 1842 Bladensburg Rd., N. E., Washington 2, D. C.
 Eureka Button Co., 892 Broadway, New York 3, N. Y.
 Everlasting Valve Co., 49 Fisk St., Jersey City 5, N. J.
 Ewing, R., & Sons, Inc., P. O. Box 454, Green Island, N. Y.
 Excel Products Co., 533 W. 9th St., Davenport, Iowa
 Excelsior Machinery Co., 1452 Randolph St., Detroit 26, Mich.

F

Fabricare Chemical Corp., 920-930 E. 43rd St., Chicago 15, Ill.
 Fabric Laundry & Dry Cleaning Machinery Corp., 192 Banker St., Brooklyn 22, N. Y.
 Fabricon Co., 8342 S. Prairie Ave., Chicago 19, Ill.
 Fafair Bearing Co., Booth St., New Britain, Conn.
 Fairbanks Co., 393 Lafayette St., New York 3, N. Y.
 Fairbanks Morse & Co., Fairbanks Morse Bldg., 600 S. Michigan Ave., Chicago 5, Ill.
 Fairfield Laboratories, Plainfield, N. J.
 Fast & Co., 1106 W. Erie St., Chicago 22, Ill.
 Fawc, Inc., 1183 Jefferson Ave., Buffalo, N. Y.
 Federal Motor Truck Co., 5780 Federal Ave., Detroit, Mich.
 Federal Textile Corp., East & Water Sts., New Haven, Conn.
 Fenton Label Co., 506-512 Race St., Philadelphia 6, Pa.
 Fennell Instrument Corp., 2920 N. Fourth St., Philadelphia, Pa.
 Filtrol Corp., 727 W. Seventh St., Los Angeles 17, Cal.
 Firefly Asbestos Products Co., 175 Bergen St., Newark 3, N. J.
 Fischer & Porter Co., Hathoro, Pa.
 Fisher Dye Works, 1813 Emmanuel St., Houston, Texas
 Fiske Bros. Refining Co., Lubriplate Div., 129 Lockwood St., Newark 5, N. J.
 Flash Fast Marker Co., 994 Dover Ave., Akron 20, Ohio
 Fleetwood-Airflow, E. L. Chrisman Co., Div., 8255 Compton Ave., Los Angeles 1, Cal.
 Fleischer Mills, Inc., 316 E. Fifth St., Cincinnati 2, Ohio
 Fletcher Works, Inc., 213 Glenwood Ave., Philadelphia 40, Pa.
 Flexible Steel Lacing Co., 4607 Lexington St., Chicago 44, Ill.
 Flexonics Corp., 1304 S. Third Ave., Maywood, Ill.
 Flintkote Co., 30 Rockefeller Plaza, New York 20, N. Y.
 Flynn & Enrich Co., 301 Holliday St., Baltimore 2, Md.
 Ford Div., Ford Motor Co., 3000 Schaeffer Rd., Dearborn, Mich.
 Ford, Luther, & Co., 100 N. Seventh St., Minneapolis 3, Minn.
 Ford Tank Maintenance Co., Inc., 715 E. 136th St., New York 54, N. Y.
 Form Controls, Inc., 612 W. 26th St., Chicago 16, Ill.

Forse Equipment Corp., 600 W. 14th St., Anderson, Ind.
Foster-Stephens, Inc., 310 S. Christiana Ave., Chicago 24, Ill.
 Foxboro Co., 18 Neponset Ave., Foxboro, Mass.
Frankenhoff Corp., Harwood Bldg., Scarsdale, N. Y.
Franklin Mfg. Co., 2615 E. Franklin Ave., Minneapolis 6, Minn.
Franklin Research Co., 5134 Lancaster Ave., Philadelphia 31, Pa.
Franklin Rug Machinery Co., P. O. Box 187, Franklin Pk., Ill.
Franklin Textile Mills, 120 Franklin St., Franklin Park, Mass.
Fre-Bir-Fac, Inc., 876 Van Houten Ave., Clifton, N. J.
Fremont Rubber Co., 317 McPherson Highway, Fremont, Ohio
French Textile Co., 432 Ave. A., Rochester, N. Y.
Freund, Freund & Co., Inc., 102 Franklin St., New York 13, N. Y.
Freyberg Bros.-Strauss, Inc., 419 Fourth Ave., New York 16, N. Y.
Frigidaire Div., General Motors Corp., 300 Taylor St., Dayton 1, Ohio
Fry Bros. Co., 1728-46 Dana Ave., Cincinnati 7, Ohio
Frye, E. B., & Son, Wilton, N. H.
Fullo Corp., 2358 N. Seeley Ave., Chicago 47, Ill.
Fulton Boiler Works, Inc., Box 228, Fulton, N. Y.
Fumol Corp., 49-65 Van Dam St., Long Island City 1, N. Y.
Fur-Lastic, Inc., 147 W. 35th St., New York 1, N. Y.
Furter, Inc., 258 E. Third St., Mt. Vernon, N. Y.

G

G & G Chemical Co., 704 W. Broadway, Hope-well, Va.
GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E., Pontiac 11, Mich.
Gabriel Boiler & Fabrication Co., 1428 N.W. 14th Ave., Portland 9, Ore.
Gardner-Denver Co., Gardner Dr., Quincy, Ill.
Gardner Machinery Corp., N. Ashby Terrace & Seaboard Railway, Charlotte 1, N. C.
Carlock Packing Co., 402 E. Main St., Palmyra, N. Y.
Garment Finishing Equipment Corp., 18 Brattle St., Cambridge 38, Mass.
Garment Hanger Co., 2624 Geraldine St., Los Angeles 11, Cal.
Gasway Corp., 6463 N. Ravenswood Ave., Chicago 26, Ill.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Geller, I., & Son, 990 Myrtle Ave., Brooklyn 6, N. Y.
General Aniline & Film Corp., Special Products Sales Div., 444 Madison Ave., New York 22, N. Y.
General Boiler Equipment Corp., 2651-53 Gravois St., St. Louis 19, Mo.
General Chemical Div., Allied Chemical & Dye Corp., 40 Rector St., New York 6, N. Y.
General Cleaners Products Co., 410 N. Kedzie Ave., Chicago 12, Ill.
General Detroit Corp., 2272 E. Jefferson St., Detroit 7, Mich.
General Dyeing Co., 818 Dorman St., Indianapolis 2, Ind.
General Dyestuff Corp., 435 Hudson St., New York 14, N. Y.
General Electric Co., 1 River Rd., Schenectady 5, N. Y.
General Electric Co., Air Conditioning Dept., 5 Lawrence St., Bloomfield, N. J.
General Electric Co., Lamp Dept., Nela Park, Cleveland, Ohio
General Luminescent Corp., 732 S. Federal St., Chicago 5, Ill.
General Machine Supply Co., 933 Market St., Camden, N. J.
General Motors Corp., General Motors Bldg., Detroit 2, Mich.
General Pacific Corp., 1501 E. Washington Blvd., Los Angeles 21, Cal.
General Scientific Equipment Co., 27th & Huntington Sts., Philadelphia 32, Pa.
Gerber Mfg. Co., 1602 W. Sixth St., Mishawaka, Ind.
Germaclean, Inc., 431 Niagara St., Buffalo 1, N. Y.
German's Inc., Twist-Ems Div., Los Angeles 21, Cal.
Gibraltar Fabrics, Inc., 2236 Pitkin Ave., Brooklyn 7, N. Y.
Gifford, H. M., Mfg. Co., 2732 B St., Philadelphia 34, Pa.
Gilbert & Barker Mfg. Co., West Springfield, Mass.
Glamorene, Inc., 10 E. 44th St., New York 17, N. Y.
GlecoZip Co., 216 N. Clinton St., Chicago 6, Ill.
Glidden Co., 11001 Madison Ave., Cleveland 2, Ohio
Glass Products Co., Inc., 11131 Michigan Ave., Chicago 28, Ill.

Globe Ticket Co. of New England, 620 Commonwealth Ave., Boston 15, Mass.
Globe Weaving Co., 17 N. State St., Chicago, Ill.
Glover, Bill, Inc., 5204 Truman Rd., Kansas City 1, Mo.
Golden-Anderson Valve Specialty Co., 2130 Keenan Bldg., Pittsburgh 22, Pa.
Goldman Pressing Machine Corp., 400 W. Broadway, New York 12, N. Y.
Goodrich, B. F., Co., 500 S. Main St., Akron 18, Ohio
Goodyear Tire & Rubber Co., Akron, Ohio
Gorton Heating Corp., Cranford, N. J.
Goulds Pumps, Inc., 300 Fall St., Seneca Falls, N. Y.
Graton & Knight Co., 356 Franklin St., Worcester 4, Mass.
Graver Tank & Mfg. Co., Inc., 4809 Tod Ave., East Chicago, Ind.
Graves & Marshall Co., 720 E. Monument Ave., Dayton 2, Ohio
Greaves Machine Tool Co., 2001-17 Eastern Ave., Cincinnati 2, Ohio
Green, A. P., Fire Brick Co., Mexico, Mo.
Greenville Chemical Co., Cor. E. Stone & Bennett, Greenville, S. C.
Greenwood Textile Co., 390 Fenn St., Pittsfield, Mass.
Greif Bros. Cooperage Corp., Wire Garment Hanger Div., Pennsylvania Ave., Delaware, Ohio
Grill, Samuel, Inc., 412 Eighth Ave., New York 1, N. Y.
Grimes Co., 2900 Main St., Dallas 1, Texas
Gronauer, M. H., Co., 11 Nettleton, Memphis 2, Tenn.
Gross Machinery Co., Inc., 179-191 Halbert St., Buffalo 14, N. Y.
Gulf Oil Corp.-Gulf Refining Co., 3800 Gulf Bldg., Pittsburgh 30, Pa.
Gummed Tape & Devices Co., 1318-20 60th St., Brooklyn 19, N. Y.
Gustin-Kramer Co., 74-80 Cummington St., Boston 15, Mass.
Guth, Edwin F., Co., 2615 Washington Ave., St. Louis 3, Mo.

H

Hachik Bleach Co., Wynnfield Ave., Philadelphia 31, Pa.
Haertel, Walter, Co., 2840 Fourth Ave., S., Minneapolis 8, Minn.
Hagan Corp., 323 Fourth Ave., Pittsburgh 22, Pa.
Hall, Amos H., & Sons, 5500 N. Water St., Philadelphia 20, Pa.
Hamilton-Caster & Mfg. Co., 1637 Dixie Highway, Hamilton, Ohio
Hamilton Copper & Brass Works, Div., Brighton Copper Works, Inc., 820 State Ave., Cincinnati 4, Ohio
Hammel-Dahl Co., 247 Richmond St., Providence 3, R. I.
Hammond Laundry-Cleaning Machinery Co., Hammond Bldg., Waco, Texas
Handy Button Machine Co., 2255 S. Rockwell St., Chicago 8, Ill.
Handy Specialties, 9159 W. Pico Blvd., Los Angeles 35, Cal.
Hanscom, H. F., & Co., 38 Hospital St., Providence 3, R. I.
Hapman-Dutton Co., Dutton Boiler Div., 629 Gibson St., Kalamazoo 6, Mich.
Haring & Stephens Co., 635 McBride Ave., Paterson, N. J.
Harris Bros. Mfg. Co., Inc., 20-22 Grotan Ave., Cortland, N. Y.
Harrison, Robert D., Inc., 566 E. Warren Ave., Detroit 2, Mich.
Hatters Supply House, Inc., 404 S. Wells St., Chicago 7, Ill.
Hauser-Stander Tank Co., 4838 Spring Grove Ave., Cincinnati 32, Ohio
Haynes Stellite Co., Unit of Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
Hays Corp., 742 E. Eighth St., Michigan City, Ind.
Healy-Ruff Co., 2255 University Ave., St. Paul 4, Minn.
Heinemann Electric Co., Pennsylvania Ave. & Plum St., Trenton 2, N. J.
Heller, B., & Co., 3925 Calumet Ave., Chicago 15, Ill.
Heller Laboratories, 196 Morgan St., Jersey City 2, N. J.
Hellige, Inc., 37-18 Northern Blvd., Long Island City 1, N. Y.
Hermawing & Bartlett Mfg. Co., 500 Fifth Ave., New York 35, N. Y.
Henrici Laundry Machinery Co., 11 Henrici St., Mattapan Station, Boston 26, Mass.
Henry Hanger Co. of America, 450 Seventh Ave., New York 1, N. Y.
Hercules Filter Corp., 204 21st Ave., Paterson 3, N. J.
Hercules Laundry Machinery Co., Inc., 132-36 W. 124th St., New York 27, N. Y.
Hercules Powder Co., 932 King St., Wilmington, Del.

Herman Body Co., 4400 Clayton Ave., St. Louis 10, Mo.
Hettrich Mfg. Co., 1401 Summit St., Toledo 12, Ohio
High Chemical Co., Chemical Specialties Div., 1760 N. Howard St., Philadelphia 22, Pa.
Hild Floor Machine Co., 740 W. Washington Blvd., Chicago 6, Ill.
Hinz Needle Co., 10018 S. Rhodes Ave., Chicago 26, Ill.
Hirsch, Leo H., & Co., 380 Second Ave., New York 10, N. Y.
Hodge, Farwell & Co., 1934 Sterling Ave., Elkhart, Ind.
Hodges, Jack, Specialty Co., 1529 Westheimer Rd., Houston 6, Texas
Hoffman, U. S., Machinery Corp., 105 Fourth Ave., New York 3, N. Y.
Hollingsworth & Vose Co., 112 Washington St., East Walpole, Mass.
Holt Mfg. Co., 651-81 20th St., Oakland 12, Cal.
Hood Chemical Co., Inc., Crescent Div., 80 Rittenhouse Pl., Ardmore, Pa.
Hoof Products Co., 6543 S. Laramie Ave., Chicago 38, Ill.
Hooker Electrochemical Co., Niagara Falls, N. Y.
Hooper, Wm. E., & Sons, Woodberry, Baltimore, Md.
Hope Webbing Co., Providence 1, R. I.
Hopkins Equipment Co., 22 Maple Ave., Hatfield, Pa.
Horn, A. C., Co., Inc., 10th St. & 44th Ave., Long Island City 1, N. Y.
Houghton, E. F., & Co., 303 W. Lehigh Ave., Philadelphia 33, Pa.
House of Plastics, Div., Neon Sign Co., Inc., 14th at Taylor, Herrin, Ill.
Howe Paper Corp., 670 Young St., Tonawanda, N. Y.
Howe Scale Co., Rutland, Vt.
Hoyt Mfg. Corp., Forge Rd., Westport, Mass.
Hup Printing Services, 320 N. Euclid Ave., Oak Park, Ill.
Hubinger Co., 601 Main St., Keokuk, Iowa
Heubusch Div., American Laundry Machinery Co., 3775 N. Holton St., Milwaukee 1, Wisc.
Hungerford & Terry, Inc., Atlantic Ave., Clayton, N. J.
Huntington Laboratories, Inc., 900-970 E. Tipton St., Huntington, Ind.
Huron Milling Co., 9 Park Pl., New York 7, N. Y.
Hydrator Co., Div. of Zephyr Laundry Machinery Co., LaSalle & Huron Sts., Chicago 10, Ill.
Hygrade Button & Supply Co., 19 W. 34th St., New York 1, N. Y.

I

Ideal Industries, Inc., Park Ave., Sycamore, Ill.
Ideal Lighting Co., 2219 63rd St., Kenosha, Wisc.
Ideal Steel Machine Co., 102 Iowa Ave., Belleville, Ill.
Ilg Electric Ventilating Co., 2850 N. Crawford Ave., Chicago 41, Ill.
Illinois Laundry Machinery Mfg. Co., 3128 W. Lake St., Chicago, Ill.
Imperial Dye House, 3421 Tulane Ave., New Orleans 19, La.
Imperial Laundry Machinery Co., 245 Huron St., Brooklyn 22, N. Y.
Indiana Dye House, 122-126 State St., Hammond, Ind.
Indiana Mfg. Co., 1900 E. Main St., New Albany, Ind.
Industrial Equipment Co., 361 N. Ada St., Chicago 7, Ill.
Industrial Grain Products, Ltd., 741 Talbot St., London, Ont., Can.
Industrial Products Co., 2654 N. Fourth St., Philadelphia 33, Pa.
Infilco, Inc., 325 W. 25th Pl., Chicago 16, Ill.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Ink-O Products Co., 5101 Monte Vista St., Los Angeles 42, Cal.
Ianis, Speiden & Co., 117 Liberty St., New York 6, N. Y.
International Boiler Works Co., 500 Birch St., East Stroudsburg, Pa.
International Engineering, Inc., 1145 Bolander Ave., Dayton 1, Ohio
International Harvester Co., 180 N. Michigan Ave., Chicago, Ill.
International Laundry Equipment Co., 205 E. 42nd St., New York 17, N. Y.
International Metal Polish Co., 1910 Quill St., Indianapolis 7, Ind.
International Nickel Co., Inc., 67 Wall St., New York 5, N. Y.
International Paper Co., Southern Kraft Div., 220 E. 42nd St., New York 17, N. Y.
International Salt Co., Scranton 2, Pa.
International Steel Wool Corp., 2205 Park Rd., Springfield, Ohio
International Tag & Salesbook Co., 319 N. Whipple St., Chicago 12, Ill.

International Ticket Co., 50 Grafton Ave., Newark 4, N. J.
 International Wire Hanger Mfg. Co., 2128 W. Lake St., Chicago 12, Ill.
 Invincible Vacuum Cleaner Mfg. Co., 14th & Davis Sts., Dover, Ohio
 Inweaving Co. of America, 1505 11th St., Wichita Falls, Texas
 Iowa Soap Co., 816 Valley St., Burlington, Iowa
 Ironer Div., Speed Queen Corp., Algonquin, Ill.
 Iron Fireman Mfg. Co., 3170 W. 106th St., Cleveland 11, Ohio

J & L Mfg. Co., 21 Castle Ave., Bridgeport 5, Conn.
 Jacobson, Lawrence, Dye Works, Inc., Oxford Ave., Summerdale & Comfy Sts., Philadelphia 24, Pa.
 Jarvis & Jarvis, Inc., S. Main St., Palmer, Mass.
 Jay-Dee, Inc., Mfg. Chemists, 946 Kenmore Blvd., Akron 14, Ohio
 Jefferson Island Salt Co., Inc., Jefferson Island Bldg., 136 St. Matthews Ave., Louisville 7, Ky.
 Jensen Mfg. Co., Broad St. & Hylton Rd., Palmyra, N. J.
 Johns-Manville, 22 E. 40th St., New York 16, N. Y.
 Johnson Chemical Industries, Inc., 99 Mellor Ave., Baltimore 28, Md.
 Johnson Corp., 855 Wood St., Three Rivers, Mich.
 Johnson Metal Hose, Inc., 10 Sperry, Waterbury 20, Conn.
 Johnson, S. C. & Son, Inc., Racine, Wisc.
 Johnson, W. F. Products Co., 309 Joliet Ave., San Antonio 9, Texas
 Johnston Bros., Inc., 100 Pine St., Ferrysburg 1, Mich.
 Johnston & Jennings Co., Div. Pettibone-Mulliken Corp., 6917 Bessemer Ave., Cleveland 27, Ohio
 Jones, C. Walker, Co., 6135 N. Lambert, Philadelphia 38, Pa.
 Julian-Kay Co., 1133 Broadway, New York 10, N. Y.
 Juno Cleaner Supplies, Inc., 632 Wythe Ave., Brooklyn 11, N. Y.

K

K & K, Inc., 16 Sutton St., Lawrence, Mass.
 Kamen Soap Products Co., Inc., 233 Broadway, New York 7, N. Y.
 Kaplan's, David G. Drycleaner's Service (Katr Furs), 146 W. 29th St., New York 11, N. Y.
 Karrick Co., 2100 McLendon Ave., N. E., Atlanta, Ga.
 Kato Engineering Co., 1415 First Ave., Mankato, Minn.
 Katz Bag Co., 6243 N. Western Ave., Chicago 45, Ill.
 Kaye & MacDonald, Inc., 11-15 Central Ave., West Orange, N. J.
 Keckley, O. C., Co., 400 W. Madison St., Chicago 6, Ill.
 Keeler, E., Co., 238 West St., Williamsport 3, Pa.
 Keever Starch Co., 538 E. Town St., Columbus 15, Ohio
 Kelite Products, Inc., P. O. Box 2917, Terminal Annex Station, Los Angeles 54, Cal.
 Kelley Iron Works, 801 W. First St., Charlotte, N. C.
 Kelmaker Mfg. Co., 311 Sixth Ave., Rochelle, Ill.
 Kelvinator Div., Nash-Kelvinator Corp., 14250 Plymouth Rd., Detroit, Mich.
 Kern Laboratories, 101 E. 144th St., Bronx 51, N. Y.
 Kemlek Corp., Div. Tobin-Halpert, Inc., 254 Third St., Brooklyn 15, N. Y.
 Kennedy Car Liner & Bag Co., Inc., Model & Prospect Sts., Shelbyville, Ind.
 Kennedy Products Co., 4125 Orchard Lane, Cincinnati 36, Ohio
 Kenney Softener & Filter Co., 3322-24 Montrose Ave., Chicago 45, Ill.
 Kentucky Bag & Truck Co., Fourth & Alvasia Sts. (P. O. Box 463), Henderson, Ky.
 Kewanee Boiler Corp., Franklin St. & Q Tracks, Kewanee, Ill.
 Keyes-Davis Co., 110 14th St., Battle Creek, Mich.
 Keystone Aniline & Chemical Co., Inc., 321 N. Loomis St. (1400 W.), Chicago 7, Ill.
 Keystone Chemical Co., 2019 Center St., N. W., Cleveland 13, Ohio
 Keystone Coat & Apron Mfg. Corp., & Keystone Scent Conditioner Corp., 315 N. 12th St., Philadelphia 7, Pa.

Keystone Laundry Machinery Co., 413 N. Oswego St., Chicago 22, Ill.
 Keystone Tag Co., West Chester, Pa.
 Key-Tag Checking System Co., 6509 Hough Ave., Cleveland 3, Ohio
 Kidde, Walter, & Co., Inc., 675 Main St., Belleville 9, N. J.
 Kimball, A., Co., 307 W. Broadway, New York 13, N. Y.
 Kinford Co., 218 Lansdowne Ave., Wayne 1, Pa.
 Kirk & Blum Mfg. Co., 3120 Forrer St. (Oakley), Cincinnati 9, Ohio
 Kirk's Leather Cleaners, 7320 Melrose Ave., Los Angeles 46, Cal.
 Kisco Boiler & Engineering Co., 2414 De Kalb St., St. Louis 4, Mo.
 Kleenhamper Inc., Harris Ave., Greenville, Ill.
 Kleenize, Inc., 1909 50th Pl., N., Birmingham 4, Ala.
 Kletnick, L., & Co., 8342 S. Prairie Ave., Chicago 19, Ill.
 Kliegman Bros., Inc., 76-01 77th Ave., Glendale, Brooklyn 27, N. Y.
 Kling Engineers, 1827 N. Harlem Ave., Chicago 37, Ill.
 Klipfel Mfg. Co., 1000 Weller Ave., Hamilton, Ohio
 Knight, Maurice A., Settlement, Akron 6, Ohio
 Knitted Padding Co., 105 Chapman St., Canton, Mass.
 Kohnstamm, H., & Co., Inc., 83-93 Park Pl., New York 7, N. Y.
 Kol Master Corp., P. O. Box 111, Oregon 1, Ill.
 Kran-Mer Corp., 2433-35 N. Third St., Milwaukee 12, Wisc.
 Kresky Mfg. Co., Inc., 307 Third St., Petaluma, Cal.
 Krevit, H., & Co., Inc., 11 Albert St., New Haven 11, Conn.
 Kuehne Chemical Co., 878 Woodruff Lane, Elizabeth, N. J.
 Kunkle Valve Co., 119 S. Clinton St., Fort Wayne 2, Ind.
 Kwik Kover Sales Co., 410 N. Kedzie St., Chicago 12, Ill.

L

Laclede Stoker Co., 4438 Hunt Ave., St. Louis 10, Mo.
 La France Dye House, 948 Sheby St., Youngstown 6, Ohio
 Laidlaw, W. A., Wire Co., Peoria, Ill.
 Lally, R., Co., 1729 Greenleaf Ave., Chicago 26, Ill.
 Lambooy Label & Wrapper Co., 2129 Portage St., Kalamazoo 29F, Mich.
 Lamson Corp., Blower Div., Lamson St., Syracuse, N. Y.
 Lane, W. T., & Bros., Inc., Prospect St., Poughkeepsie, N. Y.
 Lanning Bag & Specialty Co., 205 Front St., Harvard, Ill.
 Larick Mfg. Co., 287 Broadway, New York, N. Y.
 Larson Products Co., Inc., 4234 Third Ave., New York 57, N. Y.
 Lattner, P. M., Mfg. Co., 1411 Ninth St., S.W., Cedar Rapids, Iowa
 Laundry Chemicals Co., 4538 W. 130th St., Cleveland 11, Ohio
 Laundry Machinery Div., Jefferson Wood Working Co., 14th & Hill Sts., Louisville, Ky.
 Laurel Co., 129 Grand St., Garfield 2, N. J.
 Layne & Bowler, Inc., Box 6697, Hollywood Station, Memphis 8, Tenn.
 Le Ann Furs, Inc., 311 Collinsville Ave., East St. Louis, Ill.
 Leathers, L. M., Sons, Paper Products Div., 675 Pulaski St., Athens, Ga.
 Leavitt Machine Co., 10 E. River St., Orange, Mass.
 Lee Mfg. Co., 453 Taunton Ave., East Providence 14, R. I.
 Leebaw Mfg. Co., 65 Wayne Ave., Youngstown 2, Ohio
 Leef Bros., Inc., 205 Irving Ave., N., Minneapolis 5, Minn.
 Lefell, James, & Co., 426 East St., Springfield 99, Ohio
 Leonard Pressing Machine Co., 1808 English St., High Point, N. C.
 Leslie Co., 297 Grant Ave., Lyndhurst, N. J.
 Lever Bros. Co., 390 Park Ave., New York, N. Y.
 Levy, L. & H., Inc., 31 Greene St., New York 13, N. Y.
 Lewis, G. B., Co., P. O. Box 377, Watertown, Wisc.
 Lewis Invisible Stitch Machine Co., 129 W. 22nd St., New York, N. Y.
 Lewis National Corp., 1 Mt. Vernon St., Dorchester 25, Mass.
 Lewis-Shepard Products, Inc., 307 Walnut St., Watertown 72, Mass.
 Liberty Marking Tag Co., Inc., 27 Hooper St., Brooklyn 11, N. Y.
 Life Products Co., 1105 N. Water St., Milwaukee 2, Wisc.
 Lincoln Bag Co., Inc., 4200 W. Schubert Ave. (2700 N.), Chicago 39, Ill.

Lincoln-Hudson Rug Dyers, Inc., 900 Passaic Ave., East Newark, N. J.
 Lincoln Research, Inc., 3250 Montrose St., Toledo 6, Ohio
 Lincoln Rug Co., Inc., 85 Springdale Ave., Newark, N. J.
 Lincoln-Schlueter Floor Machinery Co., Inc., 512 S. Peoria St., Chicago, Ill.
 Link-Belt Co., 300 W. Pershing Rd., Chicago 9, Ill.
 Linn Coach & Truck Div., Great American Industries, Inc., 443 Chestnut St., Oneonta, N. Y.
 Lion Uniform Co., 209 S. Jefferson, Dayton 2, Ohio
 Liquidometer Corp., 39-21 Skillman Ave., Long Island City 1, N. Y.
 Little Frenchman's Dye Works, 921 N. 25th St., Waco, Texas
 Little Giant Specialties, 1547 Venice Blvd., Los Angeles 31, Cal.
 Livingstone Engineering Co., 100 Grove St., Worcester 5, Mass.
 Loebel Dye Works, Inc., Roanoke, Va.
 Lookout Boiler & Mfg. Co., Manufacturers Rd. & Compress St., Chattanooga 1, Tenn.
 Loroco Industries, Inc., 205 E. Benson St., Reading 15, Ohio
 Los Angeles Soap Co., 617 E. First St., Los Angeles, Cal.
 Loudon Machinery Co., 1402 Broadway, Fairfield, Iowa
 Loyal Textile Machinery Corp., 286 Scholes St., Brooklyn, N. Y.
 Lubbock Machine Co., Inc., Box 1138, Lubbock, Texas
 Lucas, Claude E., Associates, 880 E. Colorado, Pasadena, Cal.
 Lucey Boiler & Mfg. Co., Chattanooga 2, Tenn.
 Lunkenheimer Co., P. O. Box 360, HH, Cincinnati 14, Ohio
 Lynch, John F., Co., 1166 Howard St., San Francisco, Cal.

Mc

McBee Co., 295 Madison Ave., New York, N. Y.
 McClary Associates, Inc., 612 N. Main St., Memphis, Tenn.
 McDonnell & Miller, Inc., 3500 N. Spaulding Ave., Chicago 18, Ill.
 McElmoyl, W. J., Co., 63 Church St., Groveville, N. J.
 McGrane Bros., 44 Court St., Brooklyn 2, N. Y.
 McLay, Walter J., 1105 N. Water St., Milwaukee 2, Wisc.
 McLeod & Henry Co., Inc., 351 First St., Troy, N. Y.

M

M. B. Mfg. Co., Inc., 1060 State St., New Haven, Conn.
 M & B Metal Products Co., 4415 Morris Ave., Birmingham, Ala.
 M & M Chemical Co., 1559 W. Main St., Williamantic, Conn.
 Maas, A. R., Chemical Co., Div. Victor Chemical Works, 4570 Ardine St., South Gate, Cal.
 Macbeth Corp., 227 W. 17th St., New York 11, N. Y.
 Mack Trucks, Inc., 350 Fifth Ave., New York 1, N. Y.
 Madison Products Co., 105 16th St., Toledo 2, Ohio
 Magic Re-Weaving Service, 28 W. Second St., Salt Lake City, Utah
 Magic-Seal Paper Products, 883 E. Hudson, Columbus 11, Ohio
 Magic Textile Weavers, 948 W. McNichols Rd., Detroit 3, Mich.
 Magla Products, 310-312 Washington St., Newark 2, N. J.
 Magnus Chemical Co., Inc., South Ave., Garwood, N. J.
 Majestic Dye House, 3920 W. Armitage Ave., Chicago 47, Ill.
 Majestic Paper & Twine Co., Inc. (Laundry & Drycleaning Supply Div.), 155 Imlay St., Brooklyn 31, N. Y.
 Malleable Iron Fittings Co., Branford, Conn.
 Mallinckrodt Chemical Works, Second & Mallinckrodt Sts., St. Louis 7, Mo.
 Manitowoc Cotton Goods Mfg. Co., 909 York St., Manitowoc, Wisc.
 Manitowoc Engineering Corp., 512 S. 16th St., Manitowoc, Wisc.
 Manning, Maxwell & Moore, Inc., 250 E. Main St., Stratford, Conn.
 Marlene Chemical Products Corp., 1181 Jefferson Ave., Buffalo 8, N. Y.

- Marion Machine Foundry & Supply Corp., 90 West St., New York, N. Y.
 Marion Mfg. Co., 473 Stevens, S.W., Atlanta 4, Ga.
 Market Forge Co., 25 Garvey St., Everett 49, Mass.
 Market Industries, Inc., 209 Utah St., San Francisco 1, Cal.
 Mark-O Corp., 17 W. 60th St., New York 23, N. Y.
 Mark-Tex Corp., 453 W. 17th St., New York 11, N. Y.
 Marlow Pumps, Greenwood Ave., Ridgewood, N. J.
 Mar-Mak Machinery Mfg. Co., 626 N. Logan Ave., Danville, Ill.
 Marmon-Herrington Co., Inc., 1511 W. Washington St., Indianapolis 7, Ind.
 Marsh, Jas. P., Corp., 2073 Southport Ave., Chicago 14, Ill.
 Marshall Co., 4350 N. Pulaski Rd., Chicago 41, Ill.
 Marshall Heater Co., 716-26 E. Monument Ave., Dayton 2, Ohio
 Martin Equipment Co., Div. American Laundry Machinery Co., Ross & Section Aves., Cincinnati 12, Ohio
 Martin Fan & Blower Co., 4632 W. 21st Pl., Chicago 50, Ill.
 Martin, Reba, Inc., 4201 N. W. 2nd Ave., Miami 37, Fla.
 Marvella Corp., 2019 Center St., N. W., Cleveland 13, Ohio
 Marvel Marking Machine Co., 1433 Blake St., Denver, Colo.
 Mason-Neilan Regulator Co., 1190 Adams St., Boston 24, Mass.
 Master Builders Co., 7016 Euclid Ave., Cleveland 3, Ohio
 Master Machinery Co., Anderson, Ind.
 Master Mfg. & Equipment Co., 3000 St. Louis, Fort Worth 1, Texas
 Master Products Co., 7000 S. Wentworth Ave., Chicago 21, Ill.
 Mathieson Chemical Corp., Mathieson Bldg., Baltimore 3, Md.
 Maxant Button & Supply Co., 117 S. Morgan St., Chicago 7, Ill.
 Mead, George E., Co., 11240 S. Arroyo Dr., Whittier, Cal.
 Mears-Kane-Ofeldt, Inc., P. O. Box 223, Bridgeport, Pa.
 Medalie Mfg. Co., 213 First Ave., N., Minneapolis 1, Minn.
 Meese, Inc., 1948 Madison St., Madison, Ind.
 Mechanical Handling Systems Inc., 4600 Nancy Ave., Detroit 12, Mich.
 Mehl Mfg. Co., 2057 Reading Rd., Cincinnati 2, Ohio
 Memphis Hanger Co., 14th & P. & L. E. R. R., Monaca, Pa.
 Menasha Wood Split Pulley Co., 674 Tayco St., Menasha, Wisc.
 Mendex Corp., 2300 Payne Ave., Cleveland 14, Ohio
 Merchants Chemical Co., Inc., 60 E. 42nd St., New York 17, N. Y.
 Mercury Cleaning Systems, Inc., 1817 Benson Ave., Evanston, Ill.
 Merson Products Co., 63 Essex St., Jersey City 2, N. J.
 Metalastic Mfg. Corp., 536 Broad St., Glen Rock, N. J.
 Metropolitan Body Co., 151 Kossuth St., Bridgeport 8, Conn.
 Mexico Refractories Co., Love & Cole Sts., Mexico, Mo.
 Meyerford Co., 5323 W. Lake St., Chicago 44, Ill.
 Midland Color & Chemical Co., 15 Greene St., Jersey City 2, N. J.
 Midland Paint & Varnish Co., 3828 E. 91st St., Cleveland 5, Ohio
 Midwest Laundry & Cleaning Machinery Co., 1341-45 W. Main, Oklahoma City, Okla.
 Miller Co., 99 Center St., Meriden, Conn.
 Miller, A. O., Co., 220 Nordina St., Redlands, Cal.
 Miller Laundry Machinery Co., 8341 Lyndon Ave., Detroit 21, Mich.
 Milwaukee Leather Belting Co., 1114 N. Water St., Milwaukee 2, Wisc.
 Milwaukee Printed String Co., 2604 W. Fond du Lac Ave., Milwaukee 6, Wisc.
 Mine Safety Appliances Co., 201 N. Braddock Ave., Pittsburgh 8, Pa.
 Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
 Minnesota Chemical Co., 2285 Hampden Ave., St. Paul 4, Minn.
 Mitchell, J. B., Co., 4916-28 W. Jefferson Blvd., Los Angeles 18, Cal.
 Modine Mfg. Co., 1357 De Koven Ave., Racine, Wisc.
 Moeller Instrument Co., Inc., 132-08 89th Ave., Richmond Hill 18, N. Y.
 Mohawk Rubber Co., 1235 Second Ave., Akron 5, Ohio
 Mohl, Hedda, Colorado Springs, Colo.
 Monite Co., Inc., 4903 Delmar Blvd., St. Louis 8, Mo.
 Monroe Co., Inc., 10703 Quebec Ave., Cleveland 6, Ohio
 Montpelier Mfg. Co., Montpelier, Ohio
 Moore Business Forms, Inc., 900 Buffalo Ave., Niagara Falls, N. Y.
 Moore Co., 800 S. Missouri Ave., Marceline, Mo.
 Moore's Time Saving Equipment Co., 1934 S. Sterling Ave., Elkhart, Ind.
 Morehead Mfg. Co., 2455 W. Warren Ave., Detroit 8, Mich.
 Morheat Corp., 700 E. Kalamazoo St., Lansing 12, Mich.
 Morse Display Cases, 627 11th St., Wilmette, Ill.
 Morse Mfg. Co., Inc., 122 Dickerson St., Syracuse 2, N. Y.
 Mortemoth Chemical Laboratories, 3178 N. Fraternity St., Milwaukee 12, Wisc.
 Moser Bag & Paper Co., 3049 E. 55th St., Cleveland 27, Ohio
 Multi-Clean Products, Inc., 2277 Ford Parkway, St. Paul 1, Minn.
 Multi-Metal Wire Cloth Co., Inc., 1347 Garrison Ave., New York 59, N. Y.
 Mund Boilers, Inc., 1600 N. Indiana St., Los Angeles 33, Cal.
 Murray, D. J., Mfg. Co., 1002-24 Third St., Wausau, Wisc.
 Mutual Paper Box Co., Inc., 510 W. 27th St., New York 1, N. Y.
 Myer, Henry, Thread Mfg. Co., 319 W. Van Buren St., Chicago 7, Ill.
 Nagel Coat Hanger Co., 1200-18 Oliver St., Houston 7, Texas
 Namco Chemical Corp., 4765 Bellevue Ave., Detroit 7, Mich.
 Nashua Gummed & Coated Paper Co., Surehold Div., Franklin St., Nashua, N. H.
 Nashua Textile Co., Empire State Bldg., New York 1, N. Y.
 National Airoil Burner Co., Inc., 1284 E. Sedgley Ave., Philadelphia 34, Pa.
 National Aluminate Corp., 6216 W. 66th St., Chicago 38, Ill.
 National Aniline Div., Allied Chemical & Dye Corp., 40 Rector St., New York 6, N. Y.
 National Boiler Protector Co., 928 Reibold Bldg., Dayton 2, Ohio
 National Bundle Tye Co., Dept. 10, Blissfield, Mich.
 National Cash Register Co., Main & K Sts., Dayton 9, Ohio
 National Chemical Sales Co., Laboratory, Inc., 414-16-18 Sixth St., N. W., Atlanta, Ga.
 National Cleaners Chemical Mfg. Co., 2807-11 W. Lake St., Chicago 12, Ill.
 National Combustion Co., 101-06 43rd Ave., Corona 68, N. Y.
 National Dryer Mfg. Co., 2500 60th St., Kenosha, Wisc.
 National Dye House, 5812 W. Washington Blvd., Culver City, Cal.
 National Dye Works, Inc., 3513 Washington Blvd., Baltimore 22, Md.
 National Indemnity Exchange, 3820 Washington Blvd., St. Louis 8, Mo.
 National Institute of Cleaning & Dyeing, Silver Spring, Md.
 National Life Insurance Co., Montpelier, Vt.
 National Marking Machine Co., 4026 Cherry St., Cincinnati 23, Ohio
 National Milling & Chemical Co., 4601 Nixon St., Philadelphia 27, Pa.
 National Paper Band Co., P. O. Drawer 126, Denver, Colo.
 National Paper & Type Co., 120 Wall St., New York 5, N. Y.
 National Repair Services, 615 E. Main St., Richmond 19, Va.
 National Stark Products, Inc., 270 Madison Ave., New York 17, N. Y.
 National Steam Pump Co., 701 W. Johnson, Upper Sandusky, Ohio
 National Tag & Label Corp., 19 Bridge St., Watertown 72, Mass.
 National Textile Chemical Co., 1984 E. 83rd St., Cleveland, Ohio
 National Textile Conservation Div., Research Laboratories, Sherron Acres, Durham, N. C.
 National Truck Lending System, 23 E. Jackson Blvd., Chicago 4, Ill.
 Necchi Sewing Machine Sales Corp., 164 W. 25th St., New York 1, N. Y.
 Neon Sign Co., Inc., House of Plastics Div., N. 14th at Taylor, Herrin, Ill.
 Neva-Clog Products, Inc., 506 Logan St., Bridgeport 3, Conn.
 New Departure, Div. General Motors Corp., Bristol, Conn.
 New England Traveler Equipment Co., 301 Eastern Ave., Chelsea 50, Mass.
 Newhouse Co., 3827 San Fernando Rd., Glendale 4, Calif.
 New York Belting & Packing Co., 1 Market St., Passaic, N. J.
 New York High Grade Button Works, 3569 Broadway, New York 31, N. Y.
 New York Net Co., 2555 Webster Ave., New York 58, N. Y.
 New York Pressing Machinery Corp., 880 Broadway, New York 3, N. Y.
 New York Telecoin Corp., 12 E. 44th St., New York 17, N. Y.
 New York Twine Corp., 43 W. 36th St., New York 18, N. Y.
 Nice Ball Bearing Co., 30th St. & Hunting Park Ave., Philadelphia 40, Pa.
 Nicholson, W. H., & Co., 12 Oregon St., Wilkes-Barre 1, Pa.
 Nicholson, Wm. J., Laboratories, 2971 W. Davidson, Detroit, Mich.
 Nissen, John P., Jr., Co., Glenside, Pa.
 No-Dam Co., 618 N. Wells St., Chicago 10, Ill.
 Nopco Chemical Co., Inc., First & Essex Sts., Harrison, N. J.
 Norman Control Co., 4650 W. Lawrence Ave., Chicago 30, Ill.
 North American Dye Corp., 22 North St., Danbury, Conn.
 North American Electric Lamp Co., 1090 Tyler St., St. Louis 6, Mo.
 North American Mfg. Co., 4533 E. 71st St., Cleveland, Ohio
 North Coast Chemical & Soap Works, 6307-21 17th Ave. S., Seattle 8, Wash.
 Northern Equipment Div., Continental Foundry & Machine Co., 1945 Grove Dr., Erie, Pa.
 Norton & Williams, Inc., 608 North Ave., Westfield, N. J.
 No-Life Mfg. Co., P. O. Box 2942, St. Louis 17, Mo.
 Nuodex Products Co., Inc., 830 Magnolia Ave., Elizabeth, N. J.
 Nu-Pro Mfg. Co., 2918 Washington Ave., St. Louis 3, Mo.
 Nutting Truck & Caster Co., 1125 W. Division St., Faribault, Minn.
 Nycco Products Co., 110 W. 29th St., New York 1, N. Y.
 Oakite Products, Inc., 22B Thames St., New York 6, N. Y.
 Oakville Div., Scoville Mfg. Co., Waterbury 20, Conn.
 O'Brien Steam Specialty Co., Inc., 205 Harrison St., Syracuse 2, N. Y.
 Ohio Centrifugals Co., 342 S. Monument Ave., Hamilton, Ohio
 Ohio Injector Co., 175 Laundry St., Wadsworth, Ohio
 Ohio Mechanics Institute, Central Parkway & Walnut St., Cincinnati 10, Ohio
 Ohmer Register Co., 740 Bolander Ave., Dayton, Ohio
 Olin Cellophane Div., Ecusto Paper Corp., 655 Madison Ave., New York 21, N. Y.
 Oil-Rite Corp., 2318 Waldo Blvd., Manitowoc, Wisc.
 Oil States Petroleum Co., Inc., 233 Broadway, New York, N. Y.
 Olsenmark Corp., 124 White St., New York 13, N. Y.
 Olson, J. B. E., Corp., 1740 Broadway, New York 17, N. Y.
 Olson Filtration Engineers, Inc., 1624 N. Kilbourn Ave., Chicago 39, Ill.
 Olson Industries, Inc., Adams, Wisc.
 Omaha Dye Works, 24th & Poppleton, Omaha, Nebr.
 Ontario Iron Works, 32 Park St., Pulaski, N. Y.
 Orban, Kurt Co., Inc., 205 E. 42nd St., New York 17, N. Y.
 Orr Instruments Inc., 220 E. 42nd St., New York 17, N. Y.
 Orr Felt & Blanket Co., Piqua, Ohio
 Orr & Sembower, Inc., P. O. Box 1138, Reading, Pa.
 Osborn Bros., 223 W. Jackson Blvd., Chicago 6, Ill.
 Oshkosh Filter & Softener Co., 51 Cape St., Oshkosh, Wisc.
 Outside Venetian Blind Co., 2625 Elm St., Dallas 1, Texas
 Owens-Corning Fiberglas Corp., 16 E. 56th St., New York 22, N. Y.
 Paasche Airbrush Co., 1909 W. Diversey Parkway, Chicago 14, Ill.
 Pabst Sales Co., 221 N. LaSalle St., Chicago 1, Ill.
 Pacific Car & Foundry Co., Renton, Wash.
 Pacific Coat Hanger Mfg. Co., 6710 Avalon Blvd., Los Angeles 3, Cal.
 Package Chemical Co., Inc., 218 W. First St., Boston 27, Mass.
 Package Masters, 2525 S. Wabash Ave., Chicago 16, Ill.
 Packless Metal Hose Inc., 31 Winthrop Ave., New Rochelle, N. Y.
 Padcraft Corp., 480 W. Front St., Red Bank, N. J.

Paisley Products, Inc., 1770 Canalport Ave., Chicago 16, Ill.
 Pak-Rite Flexible Packaging Co., 135 W. 20th St., New York 11, N. Y.
 Pantex Mfg. Corp., 521 Roosevelt Ave., Pawtucket, R. I.
 Paper Chemicals, Inc., 510 W. 27th St., New York 1, N. Y.
 Para-Lux Products Co., 4158 W. Schubert Ave., Chicago 39, Ill.
 Pargament-Fidler, Inc., 307 Canal St., New York 13, N. Y.
 Parisian Novelty Co., 3510 S. Western Ave., Chicago 9, Ill.
 Park & Tilford, 485 5th Ave., New York 17, N. Y.
 Parker, Sid E., Boiler Mfg. Co., Inc., 2035 E. 37th St., Los Angeles 11, Cal.
 Patek & Co., 1900 16th St., San Francisco 1, Cal.
 Patterson-Kelley Co., Inc., 46 Warren St., East Stroudsburg, Pa.
 Patterson Laboratories, Inc., 11930 Pleasant Ave., Detroit 25, Mich.
 Paulin Products Co., 4444 Lawndale Ave., Lyons, Ill.
 Payson Mfg. Co., 2016 W. Jackson Blvd., Chicago 12, Ill.
 Peabody Engineering Corp., 580 Fifth Ave., New York, N. Y.
 Pecora Paint Co., Fourth St. & Sedgley Ave., Philadelphia 40, Pa.
 Peerless Pump Div., Food Machinery & Chemical Corp., 301 West Ave., 26, Los Angeles 31, Cal.
 Pellerin Milnor Corp., 8000 Edinburgh St., New Orleans 18, La.
 Penick & Ford, Ltd., Inc., 420 Lexington Ave., New York 17, N. Y.
 Pennington Co., Riverside Ave., Gillette, N. J.
 Penn Novelty Co., 228-30 N. 15th St., Philadelphia 2, Pa.
 Pennsylvania Refining Co., Butler Savings & Trust Building, Butler, Pa.
 Pennsylvania Rubber Co., Penn-Craft Park, Jeanette, Pa.
 Pennsylvania Salt Mfg. Co., 401 Widener Bldg., Philadelphia 7, Pa.
 Perelmutter, M., & Co., 4423-25 Broadway, Chicago 40, Ill.
 Perfection Marking Machine Co., 441 Detroit St., Denver 6, Colo.
 Perfection Products Co. & Identification, Inc., 550 W. Harrison St., Chicago 7, Ill.
 Perflex Corp., 500 W. Oklahoma Ave., Milwaukee 11, Wisc.
 Pernather Corp., 450 Seventh Ave., New York 1, N. Y.
 Perna Mfg. Co., Inc., 189 North Ave., N. E., Atlanta, Ga.
 Perma Products Co., P. O. Box 25, Linwood Station, Detroit 6, Mich.
 Perma-Aseptic Corp., 432 Waverly Ave., Mamaroneck, N. Y.
 Per-Mo Products Co., 1715 E. 36th St., Kansas City 3, Mo.
 Pernutti Co., 330 W. 42nd St., New York 18, N. Y.
 Perry, E. J., & Co., 1329 Rockdale Ave., New Bedford, Mass.
 Pest Control Equipment Co., 47 W. 43rd St., New York 18, N. Y.
 Pfaff Sewing Machine Sales Co., 820 Greenwich St., New York 14, N. Y.
 Philadelphia Belting Co., Sixth & Spring Garden Sts., Philadelphia 23, Pa.
 Philadelphia Quartz Co., 1160 Public Ledger Bldg., Sixth & Chestnut Sts., Philadelphia 6, Pa.
 Philco Corp., Storage Battery Div., 407 Calhoun St., Trenton 7, N. J.
 Phoenix Oil Co., 9505 Cassius Ave., Cleveland 5, Ohio
 Phoenix Products Co., 4715 N. 27th St., Milwaukee 9, Wisc.
 Photoswitch, Inc., 77 Broadway, Cambridge 42, Mass.
 Piazza Engineering Co., 4317 W. Irving Park Rd., Chicago 41, Ill.
 Pick Mfg. Co., 255 S. Main St., West Bend, Wisc.
 Pinnacle Products Corp., 260 Madison Ave., New York 16, N. Y.
 Pioneer Development Co., 1059 Ingraham St., Los Angeles 14, Cal.
 Pittsburgh Hanger Co., 14th & P. & L. E. R. R., Monaca, Pa.
 Pittsburgh Plate Glass Co., Paint Div., 632 Duquesne Way, Pittsburgh, Pa.
 Pittsburgh Tag Co., 1112-20 Galveston Ave., Pittsburgh 33, Pa.
 Pittsburgh Waterproof Co., 2537 Penn Ave., Pittsburgh 22, Pa.
 Plubrico Co., 1800 Kingsbury St., Chicago 14, Ill.
 Pneumatic Engineering & Sales, 1010 Des Moines Bldg., Des Moines, Iowa
 Pocock, M. A., 1234 Central Ave., N.E., Minneapolis 13, Minn.
 Poland Laundry Machinery Co., 47 Kemble St., Boston 19, Mass.
 Popkins Fixture Co., 3722 Forest Park Blvd., St. Louis 8, Mo.
 Porto-Fab Co., Inc., 9215 Weiss St., Dallas 9, Texas
 Powder Dispenser Co., Palestine, Texas
 Powers Regulator Co., 2810 Greenwood Ave., Chicago 14, Ill.
 Preferred Utilities Mfg. Corp., 1860 Broadway, New York 23, N. Y.
 Pre-Marked Strip Tag Co., 3232 India St., San Diego 1, Cal.
 Pres-Grip Corp., 3108 Main St., Buffalo 14, N. Y.

Premium Service Co., 115 W. 19th St., New York, N. Y.
 Procter & Gamble Distributing Co., Gwynne Bldg., P. O. Box 599, Cincinnati 2, Ohio
 Proctor & Schwartz, Inc., Seventh St. & Tabor Rd., Philadelphia 20, Pa.
 Progressive Textile Mfg. Co., 3252 River Ave., Camden 5, N. J.
 Proportioners, Inc., P. O. Box 1442, Providence, R. I.
 Prosperity Co., Inc., 2131-2171 Erie Blvd., E., Syracuse 1, N. Y.
 Prym, William, Inc., Dayville, Conn.
 Pullclean Towel Cabinet System, 11 Broadway, New York 4, N. Y.
 Pure Oil Co., 35 E. Wacker Dr., Chicago 1, Ill.
 Purkett Mfg. Co., 325 E. Third St., Joplin, Mo.
 Pyrene Mfg. Co., 560 Belmont Ave., Newark 8, N. J.
 Pyrometer Instrument Co., Inc., Bergenfield 33, N. J.

Q

Quality Products Co., 5760 W. Grand Ave., Chicago 39, Ill.
 Quigley Co., Inc., 527 Fifth Ave., New York 17, N. Y.
 Quik Pac Div., H. Wesley Hutchins Co., Hutching St., Auburn, N. Y.

R

Radiant Drying Co., 1680 Vine St., Los Angeles 28, Cal.
 Radiator Specialty Co., 1700-1900 Dowd Rd., Charlotte 1, N. C.
 Rainbow Dye Works, 109 S. 16th St., Louisville 2, Ky.
 Ramelli, Rudolph, Inc., 1030 Sprague St., Shreveport, La.
 Ramtite Co., 3563 W. 18th St., Chicago 8, Ill.
 Randolph Laboratories, Inc., 8 E. Kinzie St., Chicago 11, Ill.
 Rapids-Standard Co., 535 Bono Ave., N.W., Grand Rapids 2, Mich.
 Rassenfoss Bag Co., Inc., 1904 Grove St., Glenview, Ill.
 Rathbun Co., 2507 Chartres St., Houston 4, Texas
 Raybestos-Manhattan, Inc., 61 Willett St., Passaic, N. J.
 Raychem Products Co., 20 E. 19th St., Paterson 4, N. J.
 Ray Oil Burner Co., 1301 San Jose Ave., San Francisco 12, Cal.
 Reading-Pratt & Cady, Div. American Chain & Cable Co., Inc., Tulpehocken St. & Lebanon Valley R. R., Reading, Pa.
 Reed Mfg. Co., 1425 W. Eighth St., Erie, Pa.
 Reed-Stabin, Inc., 504 62nd St., Brooklyn 20, N. Y.
 Reed-Davis Drugs, Inc., Meriden, Conn.
 Reeves, Bros., Inc., 54 Worth St., New York 13, N. Y.
 Reinite Corp., Omaha, Nebr.
 Reintjes, George P., 2515-17 Jefferson St., Kansas City 10, Mo.
 Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc., 238 Eagle St., Brooklyn 22, N. Y.
 Reliable Steam Pressing Machine Service, Inc., 175 Bergen St., Newark 3, N. J.
 Reliance Electric & Engineering Co., 1058 Ivanhoe Rd., Cleveland 10, Ohio
 Rema Corp., Box 86, Norwalk, Conn.
 Remington Rand Co., 315 Fourth Ave., New York, N. Y.
 Renard's, 741 Madison Ave., New York 21, N. Y.
 Reo Motors, Inc., 1314 S. Washington Ave., Lansing 20, Mich.
 Repel-O-Products Div., North American Merchandising Co., Transportation Bldg., Detroit 26, Mich.
 Republic Flow Meters Co., 2240 W. Diversey Parkway, Chicago 47, Ill.
 Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio
 Research Laboratories Corp., P. O. Box 338, Durham, N. C.
 Research Products Corp., 1011 E. Washington Ave., Madison 3, Wisc.
 Resilio Co., 2328 W. Nelson St., Chicago 18, Ill.
 Resistoflex Corp., 39 Plasco Rd., Belleville 9, N. J.
 Resisto Laboratories, 1266 Donald Ave., Lakewood, Ohio
 Revere Copper & Brass, Inc., 230 Park Ave., New York 17, N. Y.
 Revere Electric Mfg. Co., 6009 N. Broadway, Chicago 40, Ill.
 Revolite Div. (Atlas Powder Co.), Ludlow St., Stamford, Conn.

Rey-Var Products Co., 53 Clark St., Hamburg, N. Y.
 Rhodes, Preston T., 520-22 N. 61st St., Philadelphia, Pa.
 Risdon Mfg. Co., 14 Risdon St., Naugatuck, Conn.
 Riverside Chemical Co., Inc., 871-947 River Rd., North Tonawanda, N. Y.
 Riverside Mfg. Co., 4919-27 Connecticut St., St. Louis 9, Mo.
 Roberts-Modaber Co., Inc., 1035 W. Lake, Chicago, Ill.
 Roberts Numbering Machine Co., 705 Jamaica Ave., Brooklyn 8, N. Y.
 Robins, G. S., & Co., 126 Chouteau St., St. Louis, Mo.
 Robinson School of Weaving, 210½ W. Main, Lebanon, Ind.
 Robot Laundry Machinery Sales, Wolf Ave., Chambersburg, Pa.
 Rochester Can Co., 114 Greenleaf St., Rochester 9, N. Y.
 Rockwell, W. S., Co., 200 Eliot St., Fairfield, Conn.
 Rodin Machinery Co., Div. Rodin Bros., 930 E. 43rd St., Chicago 15, Ill.
 Roller Bearing Co. of America, Box 480, Trenton 3, N. J.
 Roll-on-Sealer Co., Antioch, Ill.
 Rome Soap Mfg. Co., Sixth St., Rome, N. Y.
 Romaflex Tubing Co., Inc., Packard Bldg., Philadelphia 2, Pa.
 Root & Co., 11 Ionia, S. W., Grand Rapids 2, Mich.
 Roots-Connorsville Blower Corp., 900 W. Mount St., Connorsville, Ind.
 Rosenthal Mfg. Co., 5035 N. Kedzie Ave., Chicago 25, Ill.
 Rosenthal Paper Co., 200 Lynch St., St. Louis 18, Mo.
 Roth, Roy E., Co., 2430 Fourth Ave., Rock Island, Ill.
 Rothleder, Mannie, Co., 50 W. 29th St., New York, N. Y.
 Rubber City Mfg. Co., 714 N. Main St., Akron 10, Ohio
 Ruberoid Co., 500 Fifth Ave., New York 18, N. Y.
 Rubinoff, M., Inc., 154-156 W. 27th St., New York 1, N. Y.
 Ruggles, Klingemann Mfg. Co., Foster Court, Salem, Mass.
 Ruland & Oas Mfg. Co., 245 Maple Ave., North Girard, Pa.
 Rumford Chemical Works, 21 Newman Ave., Rumford 16, R. I.
 Russell Mfg. Co., Middletown, Conn.

S

Sabin Machine Co., 6536 Carnegie Ave., Cleveland 3, Ohio
 St. Louis Sticker Co., 1906 Pine St., St. Louis 3, Mo.
 Salisbury Mfg. Co., Box 1523, Providence, R. I.
 Salomon, L. A., & Bro., 216 Pearl St., N. Y. 7, N. Y.
 Sanitone Div., Emery Industries Inc., 2706 Carew Towers, Cincinnati 2, Ohio
 Sani-Top Co., Stepmey Depot, Conn.
 Sanyo Co., Inc., Empire State Bldg., New York, N. Y.
 Schaub, Fred H., Engineering Co., Inc., 2110 S. Marshall Blvd., Chicago 23, Ill.
 Schirmer-Dornbier Pump Co., 1719 E. 39th St., Cleveland 14, Ohio
 Schorsch & Co., Inc., 120 Bruckner Blvd., New York 54, N. Y.
 Schramm, Inc., West Chester, Pa.
 Schutte & Koerting Co., Cornwells Heights, Bucks County, Pa.
 Schwartz, B. W., Co., Box 205, Washington St., Two Rivers, Wisc.
 Schwitzer-Cummins Co., 1145 E. 22nd St., Indianapolis 7, Ind.
 Seamlex Company, Inc., 41-23 24th St., Long Island City 1, N. Y.
 Sec-O-Matic Corp., Div. International Projector Corp., 55 LaFrance Ave., Bloomfield, N. J.
 Security Fur Seal Co., Inc., 144 W. 27th St., New York 1, N. Y.
 Sellers Engineering Co., 4876 N. Clark St., Chicago 40, Ill.
 Seneca Dyers, Inc., 1227 Maple St., Rochester 11, N. Y.
 Serdex Inc., 91 Cambridge St., Boston 14, Mass.
 Sergeant, E. M., Pulp & Chemical Co., Inc., 7 Dev St., New York 7, N. Y.
 Service Recorder Co., 1375 Euclid Ave., Cleveland 15, Ohio
 Shane Uniform Co., Inc., 2013 W. Maryland, Evansville 7, Ind.
 Shedlov-Heinz Mfg. Co., 15-B Wilder St., Minneapolis 1, Minn.
 Shell Oil Co., Inc., 50 W. 50th St., New York, N. Y.
 Sherwin-Williams, 101 Prospect Ave., N. W., Cleveland 1, Ohio
 Shields Engineering & Mfg. Co., 277 E. 158th St., Cleveland 10, Ohio
 Shreveport Garment Mfg., 908 McNeil St., Shreveport 95, La.
 Shuler Conveyors, Inc., 43 Hutcheson Place, Lynbrook, N. Y.

- Sibur Mothproof Co.**, P. O. Box 956, Colorado Springs 3, Colo.
- Siebring Mfg. Co.**, 100 Owen St., George, Iowa
- Signal Chemical Mfg. Co.**, 2650 Wood Hill Rd., Cleveland 4, Ohio
- Silkclean Mfg. Co.**, P. O. 512, Chicago 90, Ill.
- Simco Co.**, 918 W. Master St., Philadelphia 22, Pa.
- Simmons Machine Co.**, 5118 Lincoln Ave., Chicago 25, Ill.
- Simplex Oil Heating Corp.**, 7901 Oxford Ave., Philadelphia 11, Pa.
- Simplex Time Recorder Co.**, 24 S. Lincoln St., Gardner, Mass.
- Singer Sewing Machine Co.**, 149 Broadway, New York 6, N. Y.
- Sirota, Bernard Co.**, 620 Smith St., Brooklyn 31, N. Y.
- Skelly Oil Co.**, 47th St. & Penn Ave., (605 W. 47), Kansas City, Mo.
- Skrandel Co.**, 6433 S. Rockwell St., Chicago 29, Ill.
- Slater-Robbins Co., Inc.**, 28-44 Borden Ave., Long Island City, N. Y.
- Smith, Drum & Co., Allegheny Ave. below Fifth,** Philadelphia, Pa.
- Smith, Frank R., Co.**, 503 Front St., Orange, Texas
- Smith, George Mfg. Co.**, 1323 W. Carroll Ave., Chicago 7, Ill.
- Smith, Gilman B., Co., Inc.**, 915 Broadway, New York 10, N. Y.
- Smith, Laurence C.**, 1526 Valley Dr., Syracuse, N. Y.
- Smith, R. B. Co.**, 1609 S. Nevada Ave., Colorado Springs, Colo.
- Smith, S. S., Inc.**, Box 272, Red Bank, N. J.
- Snap-Back Co., Inc.**, 56 Walker St., New York 13, N. Y.
- Soden, P. N. & Co., Ltd.**, 2143 St. Patrick St., Montreal, Quebec
- Socony-Vacuum Oil Co., Inc.**, 26 Broadway, New York 4, N. Y.
- Solvay Process Div., Allied Chemical & Dye Corp.**, 40 Rector St., New York 6, N. Y.
- Some's Terminal Uniforms, P. O. Box 87-5 Cos.** Branch, Jersey City, N. J.
- Sonneborn, L., Sons, Inc.**, 88 Lexington Ave., New York 16, N. Y.
- Southeastern Textile Co.**, 222 E. Solomon St., Griffin, Ga.
- Southern Mills, Inc.**, 585 Wells St., S. W., Atlanta, Ga.
- Sparks Pad Co.**, 7712 Denton Dr., Dallas 9, Texas
- Spear Box Co., Inc.**, 270 11th Ave., New York 1, N. Y.
- Speare Co.**, 2235 S. Ford Ave., Chicago 16, Ill.
- Specialty Devices Co.**, 805 E. 26th St., Norfolk 4, Va.
- Speed Check Co., Inc.**, P. O. Box 6131, Atlanta, Ga.
- Speed Products Co., Inc.**, 37-18 Northern Boulevard, Long Island City 1, N. Y.
- Speedy Washer Mfg. Co.**, 5700 N. W. 35th Ave., Miami 48, Fla.
- Spencer Turbine Co.**, 486 New Park Ave., Hartford, Conn.
- Spix Products Co.**, 119 Dahlem St., Pittsburgh 6, Pa.
- Spotswood Parker & Co.**, 3143 Techwood Dr., N. W., Atlanta, Ga.
- Stadham Co., Inc.**, 1825-31 N. 20th St., Philadelphia 21, Pa.
- Stadler Textile Weavers**, 312 E. Wisconsin Ave., Milwaukee, Wisc.
- Stafford Mfg. Co., Inc.**, 145 58th St., Brooklyn 20, N. Y.
- Stainproof Mfg. Co.**, 2032 E. Seventh St., Los Angeles 21, Cal.
- Staley, A. E., Mfg. Co.**, 220 Eldorado, Decatur 60, Ill.
- Stamford Chemical Co.**, 60 Spruce St., Stamford, Conn.
- Stampagraph Co., Inc.**, 79 Alexander Ave., Bronx 54, N. Y.
- StamPatch Magic Mender**, Elbow Lake, Minn.
- Standard Chemical Works Co.**, 538 E. Town St., Columbus 15, Ohio
- Standard Fire Insurance Co.**, 151 Farmington Ave., Hartford, Conn.
- Standard Garment Co.**, 2283 Fulton St., Toledo 10, Ohio
- Standard Laundry & Cleaning Machinery Co.**, 6900 Maple Ave., Dallas 2, Texas
- Standard Oil Co.**, 910 Michigan Ave., Chicago 80, Ill.
- Standard Register Co.**, 3005 Campbell St., Dayton 1, Ohio
- Standard Soap Co. of Camden**, 205 S. Second St., Camden, N. J.
- Stanley, John T., Co., Inc.**, 626-66 W. 30th St., New York, N. Y.
- Sta-Nu Corp.**, 110 S. Dearborn St., Chicago 7, Ill.
- Starr Soap & Chemical Co.**, 139 Main St., Cambridge, Mass.
- Star Service Hanger Div., L. A. Young Spring & Wire Corp.**, 9200 Russell St., Detroit 11, Mich.
- Stauffer Chemical Co.**, 420 Lexington Ave., New York 17, N. Y.
- Steamaster Automatic Boiler Co.**, 5819 Comp-ton Ave., Los Angeles 11, Cal.
- Steamaster Co., Inc.**, 110 W. 30th St., New York 1, N. Y.
- Steam Engineering & Sales Co.**, 1818 W. 47th St., Chicago, Ill.
- Stearns, George, Chemical & Mfg. Co.**, 119 E. Main St., Madison, Wisc.
- Stebbins Mfg. & Supply Co.**, 1735 Blake St., Denver 2, Colo.
- Steelcote Mfg. Co.**, 3418 Gratiot, St. Louis 3, Mo.
- Steele Canvas Basket Co., Inc.**, 199 Concord Turnpike, Box 64, Cambridge 40, Mass.
- Steele, J. W., & Co.**, 12th Ave. & Howell, North Kansas City 16, Mo.
- Steel Products Engineering Co.**, 1205 Columbia St., Springfield, Ohio
- Steffen Canvas Products**, 315 S. Beech St., Eaton, Ohio
- Steigler, George, Co.**, 8 Forest Ave., Cincinnati, Ohio
- Stein, Lawrence M., Co.**, 815-25 W. Van Buren St., Chicago 7, Ill.
- Steiner Sales Co.**, 740 Rush St., Chicago 11, Ill.
- Steinman Paper Co.**, 1302 N. Halsted Ave., Chicago 22, Ill.
- Stephens-Adamson Mfg. Co.**, Ridgeway Ave., Aurora, Ill.
- Sterling, Inc.**, 3738 N. Holton St., Milwaukee 12, Wisc.
- Steering Engineering & Mfg. Corp.**, (Templeton Mfg. Co.), Reservation Rd., Hyde Park 36, Mass.
- Sterling Supply Corp.**, 1 Porter St., Philadelphia 48, Pa.
- Sterwin Chemicals, Inc.**, 1450 Broadway, New York 18, N. Y.
- Stevenson Co., Stevenson, Conn.**
- Stevenson, Jordan & Harrison, Inc.**, 205 W. Wacker Dr., Chicago 6, Ill.
- Stewart-Warner Corp.-Alemite Corp.**, 1826 Di-versey Parkway, Chicago 14, Ill.
- Sticht, Herman, Co., Inc.**, 27 Park Pl., New York 7, N. Y.
- Stitt-Reed, Inc. and/or Wm. A. Reed & Co., Inc.**, 8432 44th Pl., Lyons, Ill.
- Stomac Engineering Co., Inc.**, 2000 W. 25th, Cleveland 13, Ohio
- Stor-Mfg. Co.**, 205 Lafayette Ave., Bellevue, Ky.
- Stout, David, & Sons**, 7016 Manchester Blvd., St. Louis 17, Mo.
- Stover Water Softener Co.**, Stover Bldg., St. Charles, Ill.
- Street, R. R., & Co., Inc.**, 561 W. Monroe St., Chicago 6, Ill.
- Strike's Laundry Machinery, Inc.**, 221 N. West-moreland Ave., Los Angeles 49, Cal.
- Strohmeyer & Arpe Co.**, 139-414 Franklin St., New York 13, N. Y.
- Stromberg Time Corp.**, 109 Lafayette St., New York 13, N. Y.
- Strong, Carlisle & Hammond Co.**, 1392 W. Third St., Cleveland 13, Ohio
- Stry-Lenkoff & Co.**, 815 E. Market St., Louisville 6, Ky.
- Studebaker Corp.**, South Bend, Ind.
- Subox, Inc.**, Fairmont Plant, Hackensack, N. J.
- Suedecore, Inc.**, 50 Station Plaza, Hempstead 1, N. Y.
- Suede King**, 1311 State St., Sharon, Pa.
- Sun Fluorescent Electric Co.**, 1655 Bedford Ave., Brooklyn 25, N. Y.
- Superior Combustion Industries, Inc.**, 1475 Broad-way, New York 18, N. Y.
- Superior Controls Co., Inc.**, 1835 S. Bonnie Brae Rd., Los Angeles, Calif.
- Superior Products Co.**, 148 Pearl St., Somerville 45, Mass.
- Superior Rug Machinery Co.**, 2738 N. Sheffield Ave., Chicago 14, Ill.
- Super Laundry Machinery Co., Div. St. Joe Ma-chines, Inc.**, State & Water Sts., St. Joseph, Mich.
- Sure-Hold Div., Nashua Gummed & Coated Paper Co.**, Franklin St., Nashua, N. H.
- Sutherland Paper Co.**, 243 E. Paterson St., Kalamazoo 13-D, Mich.
- Swift & Co.**, Union Stock Yards, Chicago 9, Ill.
- Sylvania Div., American Viscose Corp.**, 122 E. 42nd St., New York 17, N. Y.
- Sylvania Electric Products, Inc.**, 500 Fifth Ave., New York, N. Y.
- Technical Engineering Corp.**, P. O. Box 1274, Mi-ami Springs, Fla.
- Tejux Engineering Corp.**, 1 Washington Ave., Providence 1, R. I.
- Teleflex, Inc.**, 248 W. Wingohocking St., Phila-delphia 40, Pa.
- Temple, A. B., Co.**, 308 W. Burlington, La Grange, Ill.
- Templeton Bros., Inc.**, 699 Main St., Walpole, Mass.
- Testing Machines, Inc.**, 427 W. 42nd St., New York, N. Y.
- Texas Co.**, 135 E. 42nd St., New York, N. Y.
- Texas Soap Mfg. Corp.**, 4905 Calhoun Rd., Hous-ton 4, Texas
- Tex Tag Control Systems**, 522 W. Peachtree St., Atlanta, Ga.
- Textile Marking Machine Co., Inc.**, 246 Walton St., Syracuse 2, N. Y.
- Theobald Industries**, P. O. Box 72, Harrison, N. J.
- Thermopatch Corp.**, 2432 Grand Concourse, New York 58, N. Y.
- Thomaston Mills, E. Main St.**, Thomaston, Ga.
- Thompson, H. C., Clock Co.**, 38 Federal St., Bristol, Conn.
- Thompson-Hayward Chemical Co.**, 2915 South-west Blvd., Kansas City 8, Mo.
- Thomson Chemical Co.**, 619 N. Jackson St., Lima, Ohio
- Thoro Products Co.**, 3240 Larimer St., Denver 5, Colo.
- Tho-Ro Products, Inc.**, 222 Fourth Ave., New York 3, N. Y.
- Thrifty Weavers**, 310 N. St. Clair St., Toledo 4, Ohio
- TickeTag Corp.**, 512 Wrenn St., High Point, N. C.
- Tie Co., Unadilla, N. Y.**
- Tillery Container Co.**, 6000 Wilson Ave., Kansas City 3, Mo.
- Time Savers, Inc.**, 83-99 Walnut St., Montclair, N. J.
- Timken Roller Bearing Co.**, Canton 6, Ohio
- Tingue, Brown & Co.**, 1765 Carter Ave., New York 57, N. Y.
- Titeflex, Inc.**, 596 Frelinghuysen Ave., Newark 5, N. J.
- Titusville Iron Works Co., Div. Struther Wells Corp.**, 51 Drake St., Titusville, Pa.
- Todd Co., Inc.**, 1150 University Ave., Rochester 3, N. Y.
- Toledo Scale Co.**, 1076 Telegraph Rd., Toledo 12, Ohio
- Tompkins Label Service**, Frankford Ave. at Allegheny Ave., Philadelphia 34, Pa.
- Tork Clock Co., Inc.**, 1 Grove St., Mt. Vernon, N. Y.
- Trachtenberg, Sol G., & Son**, 115 W. 30th St., New York 24, N. Y.
- Trane Co.**, Second & Cameron Sts., La Crosse, Wisc.
- Travelers Insurance Co.**, Hartford, Conn.
- Tren, Harry Jay, Inc.**, 147 W. 35th St., New York 1, N. Y.
- Trico Chemical Div., Tri-State Equipment Co.**, 402 Sweetland Bldg., 1010 Euclid Ave., Cleve-land 15, Ohio
- Trico Fuse Mfg. Co.**, 2948 N. Fifth St., Milwan-kee 12, Wisc.
- Triner Scale & Mfg. Co.**, 2714 W. 21st, Chi-cago, Ill.
- Trio Chemical Works, Inc.**, 341-49 Scholes St., Brooklyn 6, N. Y.
- Tri-Pak Machinery Service, Inc.**, Box 1228, Har-lingen, Texas
- Triple "M" Inc.**, 12 Beacon St., Somerville 43, Mass.
- Tropical Paint & Oil Co.**, 1110-1300 W. 70th St., Cleveland 2, Ohio
- Troy Engine & Machine Co.**, 2400 Railroad Ave., Troy, Pa.
- Troy Laundry Machinery Div., American Machine & Metals, Inc.**, East Moline, Ill.
- Troy Sunshade Co.**, Plum & Grant Sts., Troy, Ohio
- Tru Color Dye Works**, 205 Sheffield Ave., Brook-lyn 7, N. Y.
- Tru-Sheen Corp.**, 1230 Edward St., Richmond, Cal.
- "T" Ticks-Tag Corp.**, 512 N. Wrenn St., High Point, N. C.
- Turco Products, Inc.**, 6135 S. Central Ave., Los Angeles 1, Cal.
- Tyson Sales Co., Inc.**, 1212 Washington Ave., Houston, Texas
- Taco Heaters, Inc.**, 137 South St., Providence 3, R. I.
- Tad Chemical Co., Div. Acme Industrial Com-pounds Corp.**, 625 S. Goodman, Rochester 7, N. Y.
- Tagit Co.**, 1212 11th St., Rockford, Ill.
- Takamine Laboratory, Inc.**, 193 Arlington Ave., Clifton, N. J.
- Take-Care Mfg. & Sales Co.**, 2225 E. Ninth St., Wichita, Kans.
- Talley Laundry Machinery Co.**, Mill St., Greens-boro, N. C.
- Talon, Inc.**, 626 Arch St., Meadville, Pa.
- Tarhonis Co.**, 4300 Euclid Ave., Cleveland 3, Ohio
- Tash, Al, Dye Works**, Grand Prairie, Dallas County, Texas
- Taubman, Samuel & Co.**, 1 W. 34th St., New York 1, N. Y.
- Taylor Host Inc.**, 4418 Griffin Ave., Los Angeles 31, Calif.
- Taylor, W. A., & Co.**, 7300 York Rd., Baltimore 4, Md.
- Uniflow Mfg. Co.**, Erie, Pa.
- Uniform Sales Co.**, 527 W. Roosevelt Rd., Chi-cago 7, Ill.
- Union Iron Works**, 15th & Cascade St., Erie, Pa.
- Union Oil Co. of California**, Los Angeles, Cal.
- Unipress Co.**, 2800 Lyndale Ave., S., Minne-apolis 8, Minn.
- Unit Wash Corp.**, 162 S. Washington St., Plain-ville, Conn.
- United Autographic Register Co.**, 5000 S. Cali-fornia Ave., Chicago, Ill.
- United Brass Works**, 1589 Atlantic Ave., Brook-lyn, N. Y.

United Cotton Goods Co., Inc., 101 E. Broadway, Griffin, Ga.
United Electric Motor Co., 178 Center St., New York 13, N. Y.
United Fabrics Co., 223 W. Jackson Blvd., Chicago, Ill.
United Laboratories, Inc., 2863 Noble Rd., Cleveland 12, Ohio
United Print Shop, 283 Seventh Ave., New York 1, N. Y.
U. S. Blind Stitch Machine Co., 312 Seventh Ave., New York, N. Y.
U. S. Chemical Products Co., P. O. Box 212, Columbus, Ohio
U. S. Gauge Div., American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa.
U. S. Hoffman Machinery Corp., 105 Fourth Ave., New York 3, N. Y.
U. S. Machine Corp., Lebanon, Ind.
U. S. Marking Tag Co., Inc., 718 Atlantic Ave., Brooklyn 17, N. Y.
U. S. Mining Corp., 6363 Wiltshire Blvd., Los Angeles 48, Cal.
U. S. Rubber Co., Textile Div., 1230 Ave. of the Americas, New York 20, N. Y.
U. S. Rubber Co., Koylon Div., 407 N. Main St., Mishawaka, Ind.
U. S. Steel Co., 525 William Penn Pl., Pittsburgh 30, Pa.
U. S. Stoneware Co., 60 E. 42nd St., New York 17, N. Y.
U. S. Tag & Ticket Co., 2217-21 Robb St., Baltimore, Md.
U. S. Tissue Converting Co., 1848 W. Washington Blvd., Los Angeles 7, Cal.
United Steel & Wire Co., 175 Fonda Ave., Battle Creek, Mich.
United Vacuum Appliance Corp., Connersville, Ind.
Unit Wash Co., S. Washington St., Plainville, Conn.
Universal Laundry Machinery Co., 3739 Page Blvd., St. Louis, Mo.
Universal Match Corp., St. Louis 3, Mo.
Utility Truck Corp., 603 W. 23rd St., New York 11, N. Y.

V

V & W Equipment Co., 664 W. Peachtree, N. W., Atlanta 3, Ga.
Valdora Div., American Marietta Co., 43 E. Ohio St., Chicago 11, Ill.
Van Chemical Co., 539 Third St., Detroit 26, Mich.
Veeder-Root, Inc., 70 Sargeant, Hartford 2, Conn.
Velan Engineering Co., 6585 Jeanne Mance St., Montreal, Can.
Velocity Steam Production Engineering, Inc., 38 S. Dearborn St., Chicago 3, Ill.
Vic Cleaning Machine Co., 1313 Hawthorne Ave., Minneapolis 3, Minn.
Victor Balata & Textile Belting Co., 53 Park Pl., New York 7, N. Y.
Victor Chemical Works, 141 W. Jackson Blvd., Chicago 4, Ill.
Victor Lubricator Sales Co., Mildred & North Aves., Antioch, Ill.
Viking Pump Co., Fourth & Phillips Sts., Cedar Falls, Iowa
Virginia-Carolina Laundry Supply Corp., 212 W. Seventh St., Richmond, Va.
Virginia Greenstone Co., Inc., Box 897, S. Lynchburg, Va.
Virginia Smelting Co., Third Ave. & Jefferson St., West Norfolk, Va.
Vita-Var Corp., 46 Albert Ave., Newark 2, N. J.
Volk, Lawrence B., 1221 Washington Ave., Scranton, Pa.

W

Wagner Awning & Mfg. Co., 2658 Scranton Rd., Cleveland 1, Ohio
Wagner Sign Service, Inc., 212 Hoyne Ave., Chicago 12, Ill.

Waldorf Co., 2236 Myrtle Ave., St. Paul, Minn.
Waldorf Paper Products, 2250 Wabash Ave., St. Paul 4, Minn.
Wallace & Tiernan Products, Inc., 1 Main St., Belleville 9, N. J.
Wallerstein Co., Inc., 180 Madison Ave., New York 16, N. Y.
Walser Automatic Timer Control, 420 Lexington Ave., New York 17, N. Y.
Walsh Packing Co., 208-210 Race St., Philadelphia 6, Pa.
Walton Trunk Co., 78 Fifth Ave., New York 11, N. Y.
Walworth Co., 60 E. 42nd St., New York 17, N. Y.
Warco Laboratories, 1640 W. Vernon, Los Angeles 37, Cal.
Waring Products Corp., 25 W. 43rd St., New York 36, N. Y.
Warren Belting Co., Inc., 33 Arctic St., Worcester 8, Mass.
Warwick Chemical Co., 10th St. & 4th Ave., Long Island City, N. Y.
Washine National Sands, Inc., 37-02 Northern Blvd., Long Island City 1, N. Y.
Water Service Laboratories, Inc., 423 W. 126th St., New York 27, N. Y.
Watson-Standard Co., 225 Galveston Ave., Pittsburgh 12, Pa.
Waverly Specialty Co., Waverly Hall, Ga.
Wayne Pump Co., 513-521 Tecumseh St., Fort Wayne 4, Ind.
Weave-Bac, Swetland Bldg., Cleveland 15, Ohio
Weave Masters, Inc., 413 Race St., Cincinnati, Ohio
Webb Belting & Supply Co., 1501-1507 W. 12th St., Kansas City 7, Mo.
Webster, Warren, & Co., 17th & Federal Sts., Camden, N. J.
Wendling Standard Forms, Fort Thomas, Ky.
Weissert, H. M., 607 Equitable Bldg., 613 Locust St., St. Louis, Mo.
Wescott Products Corp., 131 Lincoln Ave., New York 54, N. Y.
West Coast Laundry Machinery Co., 3246 17th St., San Francisco 10, Cal.
Western Laundry Machinery Co., 420 E. 10th St., North Kansas City 16, Mo.
Western Laundry Press Co., 619 S. Fifth West St., Salt Lake City, Utah
Western Pump Co., Ltd., 522 W. Santa Clara St., San Jose 1, Cal.
Westinghouse Air Brake Co., Industrial Products Div., Wilmerding, Pa.
Westinghouse Electric Corp., Lamp Div., Bloomfield, N. J.
Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark 5, N. J.
West Side Corp., 177 E. 123rd St., New York 35, N. Y.
Westvaco Chemical Div., Food Machinery & Chemical Corp., 405 Lexington Ave., New York 17, N. Y.
Whitehouse Nylon Products, 360 Furman St., Brooklyn 2, N. Y.
White Machine Co., 14th St. & Lafayette Ave., Kenilworth, N. J.
White Motor Co., 847 E. 79th St., Cleveland, Ohio
Whitlock Mfg. Co., 90 South St., Elmwood, Hartford 10, Conn.
Whitman Supply Co., 131 Lincoln Ave., New York 54, N. Y.
Whitney Chain & Mfg. Co., 237 Hamilton St., Hartford 2, Conn.
Wichita Precision Tool Co., Inc., 450-454 N. Seneca, Wichita 12, Kans.
Wick Narrow Fabric Co., 112 N. 12th St., Philadelphia 7, Pa.
Wiegand, Edwin L., Co., 7671 Thomas Blvd., Pittsburgh 8, Pa.
Wilbur & Williams Co., 130 Lincoln St., Brighton 35, Mass.
Wilkes Equipment Co., 3119 Ross Ave., Dallas 1, Texas
Will-Burt Co., Orrville, Ohio
Willcox & Gibbs Sewing Machine Co., 214 W. 39th St., New York 18, N. Y.
Williams & Davis Boiler & Welding Co., Inc., 2527 Canton St., Dallas 1, Texas
Williams Laundry Machinery Co., Inc., 37-16 22nd St., Long Island City 1, N. Y.
Williams, I. B., & Sons, 51 Washington St., Dover, N. H.

Wilson, A. L., Chemical Co., 38 Passaic Ave., Kearny, N. J.
Wilson & Sons, Inc., 101 Bristol St., Boston 18, Mass.
Windsor Chemical Co., P. O. Box 8, Peekskill, N. Y.
Winner, Joe L., 281 S. Hilton St., Baltimore 29, Md.
Wire Specialties & Mfg. Corp., 1348-50 12th St., Denver 4, Colo.
Wizard Weavers, 135 E. Gay St., Columbus 15, Ohio
Wolf, Jacques, & Co., Box 839, Passaic, N. J.
Wolf Machine Co., 2203 Fowler St., Cincinnati 6, Ohio
Wolke, A. F., Co., 1902 Silver St., New Albany, Ind.
Wolkind Bros., 45 N. Division St., Buffalo, N. Y.
Wolverine Sales, Storey Rd., Belding, Mich.
Wonder Wash Corp., 710 Milton Rd., Rye, N. Y.
Wonder Weavers, 44 Whalley Ave., New Haven 11, Conn.
Wood Conversion Co., First National Bank Bldg., St. Paul 1, Minn.
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Dresser Mfg. Div., Dresser Industries, Inc., 60 Front St., W.
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Harrisons & Crosfield (Canada) Ltd., Beaver Chemical & Soap Div., 137 Wellington St. (E & S)
Kewanee Boiler Corp., Royce & Lansdowne Ave.
Lamson-Munroe Ltd., 122 Dundas St., W.
Link-Belt, Ltd., Eastern Ave.
McArthur Chemical Co., Ltd., 140 Liberty St. (S)
McGillivray, R., Co., 631 E. Osburn (E & S)
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Mechanical Handling Systems, Inc., 106 Adelaide St. W.
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Standard Chemical Co., Ltd., Leaside (E & S)
Troy Laundry Machinery Div., American Machine & Metals, Inc., 1144 Weston St.
Wyandotte Chemicals Corp., P. O. Box 2, Station K

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Canadian Fantex Machinery Co., 3526 St. Lawrence Blvd. (E)
Canadian Softener & Filters Co., 4040 Masson St.
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Dalglis & Co., 6501 Dorchester Ave. (E & S)
DeLaval Co., Ltd.
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Industrial Grain Products, Ltd., 411 Confederation Bldg.
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IMPERIAL LAUNDRY MACHINERY COMPANY, 121 Greenpoint Ave., Brooklyn, New York, EV-9-6585, has available American Notrux 54" extractor with two extra baskets, purchased new 1945; Troy Streamline 8-roll ironer, new 1942; American 8-roll ironer, American 6-roll ironer; Ellis 54x120" 9-pocket stainless washer; American Cascade 42x84" washer; Troy 42x72" washer; American Tiltor shirt unit, Prosperity 4-girl unit and coat presses; Hoffman 42x90" tumbler; Huebsch 36x30" tumblers; Hoffman and American 48" and 60" extractors for laundries or cleaners; Hoffman 140F unit used two months; American 30x48" Petroleum unit with filter, still, etc., brand new; Prosperity synthetic cleaning unit; DDZ 60-pound synthetic unit; Columbia synthetic unit. 9069-4

MACHINERY FOR SALE (Cont'd)

STAINLESS STEEL & WOOD LAUNDRY WASHERS, both new and rebuilt direct from manufacturer to you at great savings. Pictures and literature on request. Horwath Laundry Machinery Mfg. Co., 1002 South 13th St., Omaha, Nebraska. 170-4

CUMMINGS-LANDAU NOW MAKING QUICK DELIVERIES OF NEW ALL WELDED STAINLESS STEEL CYLINDERS. REPLACE YOUR WORN CYLINDERS WITH CUMMINGS-LANDAU STAINLESS STEEL CYLINDERS WITH OUR PINCH AND FOOL PROOF DOORS AND ELIMINATE YOUR TEARING COMPLAINTS. CUMMINGS-LANDAU Laundry Machinery Co., 305 Ten Eyck Street, Brooklyn 6, N. Y. 9704-4

24 x 120" RETURN FEED SUPER IRONER, MOTOR DRIVEN. PRICED RIGHT. CUMMINGS-LANDAU Laundry Machinery Co., 313 Ten Eyck St., Brooklyn 6, N. Y. 9725-4

For Sale: 1—Used 44 x 84" **ROBOT** two pocket two door all stainless steel motor driven washer with automatic washman, 2—Used 42 x 96" **Ellis** motor driven all Monel washers, 1—Used 42 x 84" **American Norwood** all Monel motor driven washer, 1—Used 54" **American Notrux** extractor with two set containers. **CHICAGO USED & NEW LAUNDRY EQUIPMENT COMPANY, 3128 WEST LAKE STREET, CHICAGO 12, ILLINOIS. NE 8-7763. 9638-4**

HOPKINS TULL 2 and 4 DOOR COMBINATION CURTAIN AND BLANKET DRIERS. ABE COHEN METAL BLANKET WASHER COMPLETE WITH SQUEEZE ROLLS. CUMMINGS-LANDAU LAUNDRY MACHINERY CO., 305 Ten Eyck St., Brooklyn 6, N. Y. 9752-4

PROSPERITY POWER CIRCLE 2 GIRL SHIRT UNIT CONSISTING OF THE FOLLOWING PRESSES:—COLLAR AND CUFF, BOSOM, YOKE AND TWO LAY SLEEVE PRESS. CUMMINGS-LANDAU Laundry Machinery Co., 305 Ten Eyck St., Brooklyn 6, N. Y. 9942-4

HUEBSCH 25" COMBINATION HANDKERCHIEF AND NAPKIN IRONERS COMPLETE WITH FLUFFER AND TABLE, 4 CISELL MASTER HOSIERY DRYERS, LIKE NEW. CUMMINGS-LANDAU Laundry Machinery Co., 305 Ten Eyck Street, Brooklyn 6, N. Y. 9943-4

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MONEL METAL WASHERS, AMERICAN CASCADE, 1 COMPARTMENT 1 DOOR, MOTOR DRIVEN, 42 x 36", 28 x 48", 28 x 33", 24 x 36", 24 x 24". REBUILT LIKE NEW. CUMMINGS-LANDAU Laundry Machinery Co., 315 Ten Eyck Street, Brooklyn 6, N. Y. 251-4

Wood cylinders and shells, replacements, any size with new brass hinges and stainless steel trim, also new wood washers. **ILLINOIS LAUNDRY MACHINERY MFG. CO., INC., 3124 W. Lake St., Chicago 12, Illinois. Nevada 2-2621. 188-4**

PROSPERITY POWER CIRCLE AND UNIPRESS LATEST TYPE 4 GIRL SHIRT UNIT FOR COMPLETE MACHINE FINISHED SHIRTS. CUMMINGS-LANDAU Laundry Machinery Co., 305 Ten Eyck Street, Brooklyn 6, N. Y. 9952-4

42 x 42" AMERICAN 3 Y COMPARTMENT 3 DOOR MONEL METAL MOTOR DRIVEN BLANKET, CURTAIN AND WOOLEN WASHER, COMPLETE WITH AUTOMATIC WATER TEMPERATURE AND MIXING VALVE. CUMMINGS-LANDAU Laundry Machinery Co., 305 Ten Eyck Street, Brooklyn 6, N. Y. 9950-4

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42 x 84" AMERICAN MASTER CASCADE MOTOR DRIVEN WASHERS, ONE WITH 4 NEW SLIDING CYLINDER DOORS WITH WEDGE LOCKS, OTHER WITH NEW CL CONTINUOUSLY HINGED PINCH PROOF AND FOOL PROOF CYLINDER DOORS. CUMMINGS-LANDAU Laundry Machinery Co., 305 Ten Eyck Street, Brooklyn 6, N. Y. 288-4

FOR SALE—CHEAP:—American cylinder flatwork ironer, 30 x 120". See it running, \$1,000. One Huebsch open-end 30" drycleaning tumbler, \$275, marking machine, black and invisible, transformers, accessories, drycleaning and laundry checking and assembling reels, Prosperity and Ajax single lay sleeves. Parker Sno-White Laundry, Atlanta, Georgia. 359-4

1—Zephyr Hydraxtor with two containers, jib crane and hoist. Very reasonable. Chicago Used & New Laundry Equipment Co., 3128 West Lake St., Chicago 12, Ill. 326-4

FOR SALE:—1—50" AMERICAN NOTRUX extractor with two sets containers, stainless steel curb, 1—50" Ellis Drier Co., NOTRUX extractor with two sets containers, 2—AMERICAN NORWOOD 42 x 84" two pocket all stainless steel motor driven washers with American fully automatic washman. CHICAGO USED & NEW LAUNDRY EQUIPMENT CO., 3128 W. Lake St., Chicago 12, Ill. 328-4

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3 small Ellis Driers, 42 x 40" tumbler, capacity 50 lb. dry weight, 230 volt D.C., without controls. Sacrifice price. American Linen Supply Co., 47 South Ninth St., Minneapolis 2, Minn. 368-4

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25" HUEBSCH HANDKERCHIEF IRONER, with fluffer and table—NEW—at bargain price. Norman Control Co., 4650 Lawrence Ave., Chicago, Ill. 413-4

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KING WILLIAM'S SPECIALS—120" American Standard 6-roll flatwork ironer, rebuilt, guaranteed one year, bargain price. **WILLIAMS LAUNDRY MACHINERY CO., Inc.**, 3716 22nd Street, Long Island City 1, N. Y. Stillwell 6-6666. 394-4

KING WILLIAM'S SPECIALS—48" and 60" American and Hoffman Amico, open-top, motor-driven. Extractors, completely rebuilt, equal to new, one year guarantee, bargain prices. **WILLIAMS LAUNDRY MACHINERY CO., Inc.**, 3716 22nd Street, Long Island City 1, N. Y. 395-4

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KING WILLIAM'S SPECIALS—American Norwood Cascade Monel metal washer, 36 x 54", 2-pockets, 2-doors, also 24 x 36" and 24 x 24", one-pocket, one-door, also American Champion Hylo Monel metal washer, 42 x 36", 3-pocket. Rebuilt, equal to new, one year guarantee. At bargain prices. **WILLIAMS LAUNDRY MACHINERY CO., Inc.**, 3716 22nd Street, Long Island City 1, N. Y. Stillwell 6-6666. 398-4

1—Super stainless steel laundry washer, 42 x 54", 2-pockets, 2-doors with Huebsch valves and thermometer, 1 Zephyr 36 x 36" stainless steel washer, 1-pocket, 1-door with Huebsch valves. These machines in excellent condition. Used less than 30 months. Price reasonable. Armstrong Machine Company, 381 Peachtree, Atlanta, Ga. 384-4

AMERICAN FORMATIC 3-girl shirt unit new March 1953, includes cabinet sleeve and automatic folding table, \$9,000. Sunshine Laundry, 739 Maple Ave., Hartford, Conn. 385-4

For Sale.—Hoffman unit washer, filter, extractor, tumbler, still and two 500-gallon tanks, motor-driven and only two years old. Best offer buys the unit. Whisler's, 531 Broadway, Hanover, Pa. 386-4

LAUNDRY EQUIPMENT FOR SALE—In order to settle an estate the following laundry equipment is offered for sale. The equipment is in excellent condition and the prices are fair. 2—6-roll ironers FW1, 3—44 x 44" wood washers, 1—44 x 96" wood washer, 1—44 x 84" wood washer, 1—36 x 36" wood washer, 1—28" solid curb extractor, 2—48" Humatic extractors, 4 open-end tumblers, 12 Pantex presses FP-5138, 1 Leaf Logger, 4 American Eagle presses AD-38, 1 Bishop Puffinisher 3-head, 1 sorting reel, 1 time clock, 1—#4 Tiltor shirt unit (11 pieces) 1 folding table, 1 cuff and gusset 114B, 1 double sleeve press, 1 double sleeve form, 1 bosom press 961, 1 Eagle body, 1 Huebsch handkerchief press. Reply: Star Laundry, Inc., 618 Clinch Ave., S.W. Knoxville, Tennessee. 371-4

CABINET—SLEEVERS—UNIPRESS—1 machine 8 months old, \$1,450, 1—16 months old, \$1,250. Both machines in new condition. Prices F.O.B. Houston. Gould's Laundry, 2700 Canal St., Houston, Texas. 387-4

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36 x 54" AMERICAN CHAMPION, 36 x 44" AMERICAN MASTER CASCADE MOTOR-DRIVEN MONEL WASHERS, 2-POCKET, 2-DOORS. CUMMINGS-LANDAU Laundry Machinery Co., 305 Ten Eyck Street, Brooklyn 6, N. Y. 401-4

LATEST TYPE AMERICAN SUPER ZARMO BODY PRESS UNIT, 1—MODEL 51" PRESS and 2—MODEL 106A MUSHROOM PRESSES. CUMMINGS-LANDAU Laundry Machinery Co., 305 Ten Eyck Street, Brooklyn 6, N. Y. 402-4

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40" AMERICAN OPEN TOP EXTRACTOR WITH MONEL BASKET AND 40" TROY MERCURY EXTRACTOR WITH COPPER TINNED BASKET. CUMMINGS-LANDAU Laundry Machinery Co., 305 Ten Eyck Street, Brooklyn 6, N. Y. 404-4

Prosperity 4A drycleaning unit, thoroughly rebuilt and in first-class operating shape. Also full line of washers, extractors, stills and filters for drycleaners. Louis D'Angelo, 1070 - 66th Street, Brooklyn 19, N. Y. City. Phone: SHore Road 5-6410. 406-4

48 x 156" American Mammoth Cascade washer, 9-pockets, AC current, in excellent shape. Also a full line of smaller washers, large extractors and ironers. Louis D'Angelo, 1070 - 66th St., Brooklyn 19, N. Y. Phone: SHore Road 5-6410. 409-4

Prosperity shirt sleeve press, Model 1025PO, \$175, two American double sleeves, \$15 each, two Prosperity mushroom presses, Model 219PO, \$100 each, Prosperity wearing apparel press, Model 451S, \$175, four National marking machines, 8-character, hand powered, \$50 each, Hoffman KCO36 drycleaning press, \$125, Hoffman XW12 mushroom drycleaning press, \$100, Cissell steam-air finisher, \$65. The Crystal Laundry Co., Cumberland, Maryland. 411-4

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54 x 216 WHITLOCK EVERDUR TANK WITH SUFFICIENT COILS TO FURNISH 6,000 GALLONS OF 180° WATER WHEN SUPPLIED WITH STEAM AT ZERO POUNDS PRESSURE AND 20,000 GALLONS OF 180° WATER WITH STEAM AT 100 POUNDS PRESSURE. CUMMINGS-LANDAU Laundry Machinery Co., 305 Ten Eyck Street, Brooklyn 6, N. Y. 9953-36

2—CLAYTON 25 H.P. OIL-FIRED BOILERS, LESS THAN FIVE YEARS OLD. GOOD FOR 100 POUNDS STEAM PRESSURE. COMPLETE WITH RETURN PUMPS. NEW YORK RIGGERS, 810 MEERER AVE., BROOKLYN, N. Y. 400-36

For Sale.—One new Model W-G 100 H.P. Clayton steam generator, gas-fired boiler, complete. This equipment has never been unpacked from original crating. Write: Keagler Brick Company, P.O. Box 9, Steubenville, Ohio. 406-36

MACHINERY WANTED

IMPERIAL LAUNDRY MACHINERY CO., 121 Greenpoint Ave., Brooklyn 22, N. Y. EV. 9-6585, will purchase or help you sell your surplus equipment. Send for list or ask for representative. 9874-3

WANTED—MONEL METAL WASHERS, all sizes, and any other laundry equipment. Interested in buying entire plants for export, highest prices paid. ADDRESS: Box 9879, STARCHROOM LAUNDRY JOURNAL. -3

Wanted.—American flatwork ironers, 54" Y-pocket washers, 50" and 54" Notrux extractors, and 54" American Perry Notrux extractors. Top cash prices paid. ADDRESS: Box 9972, STARCHROOM LAUNDRY JOURNAL. -3

Wanted.—One 54" diameter American Perry type extractor with removable baskets. Would like extra sets removable baskets. Contact: Berven Rug Mills, 500 Santa Fe Ave., Fresno, Calif. 362-3

1 used 8-roll, or large 2 cylinder type ironer, late type, in Midwest area. ADDRESS: Box 412, STARCHROOM LAUNDRY JOURNAL. -3

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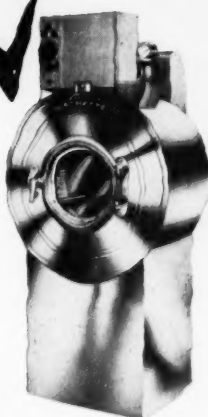
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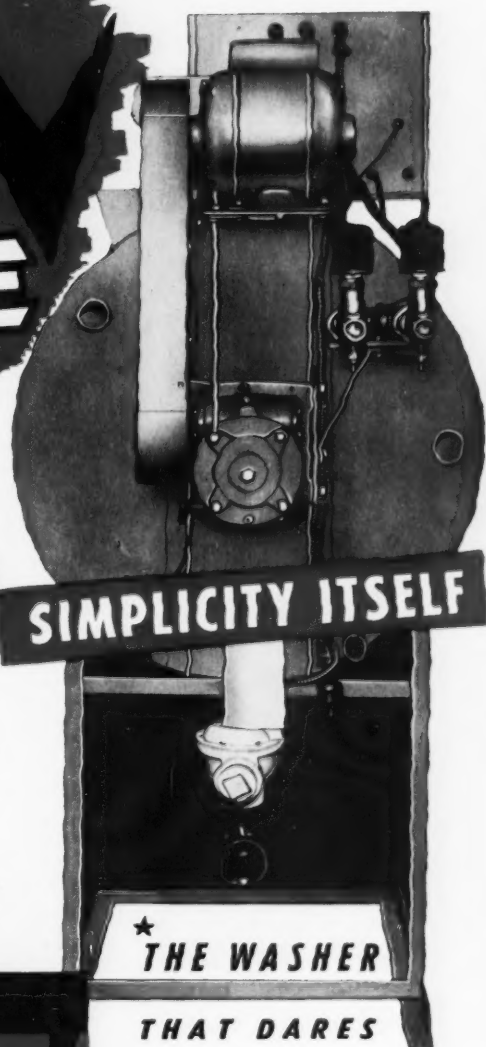
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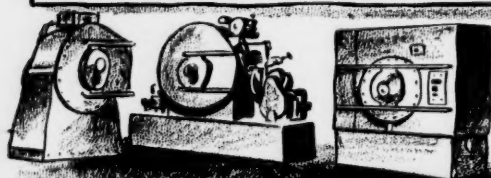
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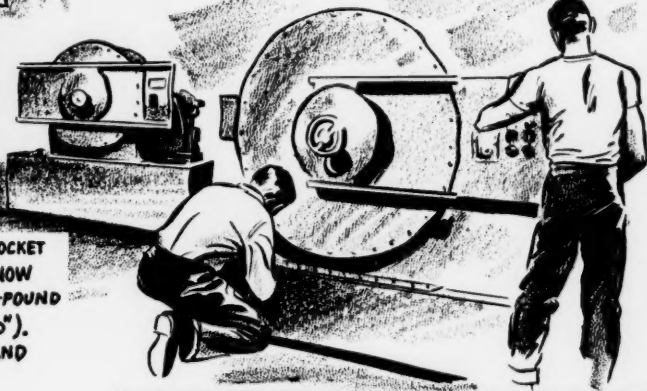
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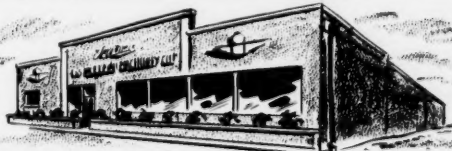
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